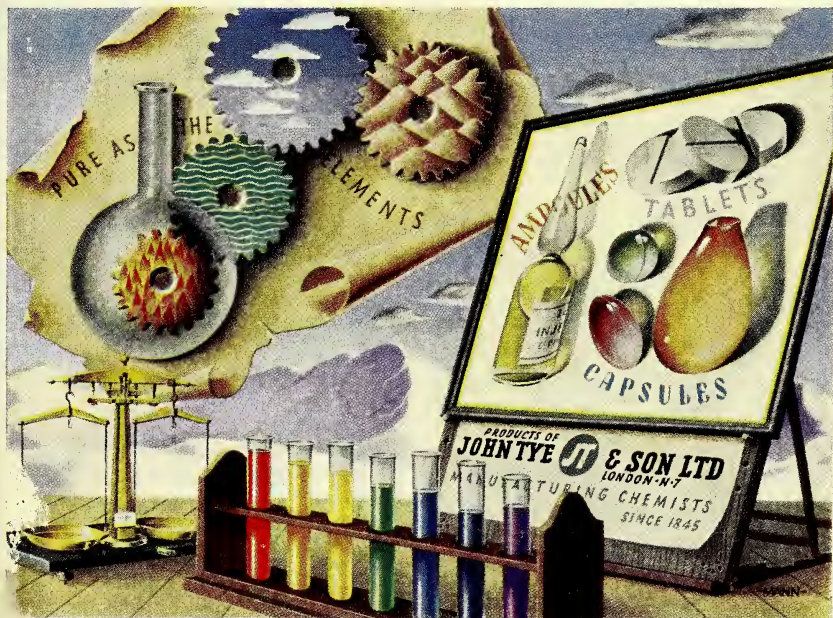


# The CHEMIST AND DRUGGIST

for RETAILER — WHOLESALE — MANUFACTURER

APRIL 22, 1950



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# *The* **CHEMIST AND DRUGGIST**

for RETAILER—WHOLESALE—MANUFACTURER

APRIL 22, 1950

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Volume CLIII

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## NEWS OF THE WEEK

**Hard Soap Prices Reduced.**—The maximum retail price of all brands of hard soap is to be reduced by one halfpenny per lb. from April 23.

**Import Licence Changes.**—Cortisone and cortrophin (ACTH) have been included in the list of drugs, medicines, etc. (Group 5) for which individual import licences are required.

**Ministerial Appointment.**—Mr. Fredrick Willey has been appointed Parliamentary Secretary to the Ministry of Food in succession to Mr. Stanley N. Evans, who has resigned.

**Leeuwenhoek Lecture.**—The first Leeuwenhoek lecture is being given by Sir Paul Fildes, F.R.S., on November 9. The lectureship was founded in 1948 by Mr. George Gabb "for an annual lecture in the field of microbiology."

**Central Price Regulation Committee.**—The Board of Trade has made the Price Regulation Committees Regulations, 1950 (S.I., 1950, No. 620) which increases to fifteen the maximum number of members of the Central Price Regulation Committee,

and has appointed Mr. J. A. Birch (general secretary, Union of Shop, Distributive, and Allied Workers) to be a member of the Committee.

**Phosphorus Insecticides Warning.**—The Ministry of Agriculture and Fisheries has issued a warning that particular care must be exercised in handling parathion and other new insecticides containing organic phosphorus compounds (see *C. & D.*, March 4, p. 285). The statement adds that since parathion leaves a poisonous residue for a time it should not be applied to crops within at least a month of picking.

**Examination Results.**—The following candidates satisfied the examiners in the Chemist and Druggist Qualifying examination held in England and Wales in April:

Collins, Margaret	Martin, Donald J.
Griffiths, William M.	Millns, Thomas H.
Hanger, Peter J.	Richardson, Hubert E. B.
Hardy, Reginald T.	Stark, Valerie H.
Haywood, Joyce B.	Warren, Donald C.
(Mrs.).	Welsh, Eric A.
Holmes, William	Wibley, Kenneth C.
Jenks, John H.	Williams, Brenda M.
Mansell, Ernest L.	



**National Chamber of Trade.**—The National Chamber of Trade is to hold its annual conference at Llandudno, April 24-26. Mr. H. E. Chapman (secretary, Proprietary Articles Trade Association) will speak on April 25 on "Resale Price Maintenance." A resolution, approving the system of collective resale price maintenance as a counter-measure to price cutting of branded goods, will be put to the meeting. Other resolutions to be discussed concern the abolition or reduction of purchase tax and reimbursement of the tax to traders in respect of unsold stock.

**Soft Drinks Order Change.**—The Minister of Food has further amended the Soft Drinks Order, 1947, with effect from April 19, so that the minimum fruit juice content of all soft drinks containing citrous fruit juice and barley is reduced to forty-eight fl. oz. per ten gall. of finished beverage for consumption undiluted, and to one and a half gall. per ten gall. for consumption after dilution. The reduction has been made because the higher fruit juice content was found to mask the flavour of the barley.

**Retail Trade in February.**—Weekly sales by large-scale retailers of chemists' goods, taking Great Britain as a whole, were 2 per cent. higher in February than in January, and 4 per cent. higher than in February 1949, according to Board of Trade statistics. On a regional basis, however, sales in February were down in all areas except Scotland (6 per cent. higher) and suburban London (2 per cent. higher), when compared with a year earlier. Stocks at cost at the end of the month were 15 per cent. greater than at the corresponding date in 1949. Turnover of independent chemists on the Ministry's panel, although 3 per cent. higher than in January, was 5 per cent. down on sales in February 1949.

**Methods of Moisture Determination.**—Modern methods of moisture determination were the subject of papers at a meeting of the Society of Public Analysts and other Analytical Chemists in London recently, when Mr. A. T. S. Babb, B.Sc., described a radio frequency (R.F.) moisture meter, based on the change of the permittivity of dielectric constant of the sample material with variation of moisture content. It had been developed primarily for the rapid testing of spray-dried egg, but also for the control of the drying of chicory roots. Because the two substances for which the instrument was devised were of so different a nature, the meter would be

expected to be capable of wide application and had been tested with a variety of substances, giving satisfactory results. Mr. R. W. Money, M.Sc., dealt with moisture determination in granulated, pulverised or milled food materials.

**Chemists Federation.**—At a meeting of the Chemists Federation Council held on April 6, the vice-president (Mr. N. Dewey) in the chair, the following additions to schedules of C.F. agreements were accepted:—Matthews & Wilson, Ltd. (Sudeley elixir); Rybar Laboratories, Ltd. (Mulsivi and Rybromal); and Sharp & Dohme, Ltd. (Sedamyn). One application for manufacturer membership was accepted subject to certain amendments being made to the literature. The standards committee has undertaken a further examination of products accepted for inclusion in the list prior to the inception of standards, it was announced. Its recommendations in respect of several products were approved by the council. The name of Alex. Stephen Son, Aberdeen, was deleted from the list of wholesalers. The Council decided to participate in the 1950 Chemists' Exhibition.

**Advances in Applied Optics.**—Under the auspices of the Royal Scottish Society of Arts, the Keith lecture was delivered by Professor W. H. J. Childs, D.Sc., Heriot-Watt College, Edinburgh, on April 12. Professor Childs, speaking on new techniques in applied optics said recognising that spherical mirrors could give a performance greatly superior to lenses, if the single fault with which mirrors were afflicted was neutralised by a special corrector plate, opened up interesting possibilities. One application was projection television, where the comparatively small picture of a cathode-ray tube was projected much enlarged on to a viewing screen. Another development concerned efforts now being made to improve the performance of microscopes so that minute differences of structure in transparent objects might be rendered visible. Hitherto such materials had required staining with selective dyes in order to show their structure, which usually meant the death of the living organism. In the new microscope a specially treated plate was inserted in the tube so that part of the light on its way through the instrument was thrown out of step with the rest. As a result slight differences of texture in a transparent object were shown up in a pronounced black and white contrast.



## LOCAL NEWS

**Eastbourne Film Show.**—At a meeting of the Eastbourne Branch of the Pharmaceutical Society on March 28 the film "The Birth of a Drug" was introduced by Mr. C. P. Astle, M.P.S.

**Resolution on Medicine Labels.**—The Derbyshire Executive Council is sending to the Ministry of Health a recommendation for the removal of purchase tax from all labels used for dispensing under the National Health Service.

**Local Pricing Rejected in Scotland.**—A proposal by the Aberdeenshire and Kincardine Executive Council that the smaller Executive Councils should be allowed to price prescriptions to lessen the delay in settling chemists' accounts has been turned down by the Department of Health for Scotland.

**Sales Conference at Leek.**—The annual conference of Harker, Stagg, Ltd., London, E.1, was held at the works of its parent company, Joshua Wardle, Ltd., Leekbrook, Leek, Staffs, March 31-April 1. A dinner at the conclusion of the business session was attended by the company's directors, executives and representatives.

**London Chamber of Commerce Report.**—The sixty-eighth annual report of the Council of London Chamber of Commerce was published recently. The report gives details of work of the various sections of the Chamber (including the botanical drug import merchants', dentifrice manufacturers', essential oil importers', and toilet soap millers' sections) and is to be presented at the annual meeting on April 26.

**Staff Dinner in Edinburgh.**—Members of the technical staff of T. & H. Smith, Ltd., were the guests of the company at a dinner in Edinburgh recently. Mr. H. G. Sharp (chairman of the board of directors) presided and introduced the principal speaker of the evening, Professor F. S. Spring (Royal Technical College, Glasgow) who gave an address on "Some Current Problems of Organic Chemistry." Other speakers were Messrs. E. P. Hudson, D. C. Wilson and J. H. Ramsay (all directors of the company) and Mr. W. F. Martin, who has been on the staff for fifty-five years.

**Cross Infection the Subject at Hendon.** Members of the Hendon and Edgware Branch of the Pharmaceutical Society were the guests of Milton Antiseptic, Ltd., recently, when Mr. A. H. Walter (chief

bacteriologist of the company) addressed them on "The Combat of Cross Infection." The lecture was illustrated by lantern slides and was followed by a film on general hygiene in the nursery. Answering questions, Mr. Walters emphasised the need for attention to detail when sterilising feeding bottles in hypochlorite solution and the importance of hand-washing in nursery, kitchen or canteen. Cultures grown from impressions of washed and unwashed fingers were shown for comparison. Apparatus was exhibited, including an electrically operated vaporiser.

**Glasgow Pharmacy Club.**—The annual dinner and dance of the Glasgow Pharmacy Club was held on February 28. Mr. S. Hughan (chairman, Glasgow and South-western Scottish Branch of the Pharmaceutical Society) being the guest of honour. Mr. Hughan, who proposed the toast of the Club, said it had been instituted in 1912 and represented among its members the manufacturing, wholesale and retail aspects of pharmacy. He paid tribute to the office-bearers. The president (Mr. T. McEwan) received the new president's medallion from Mr. W. Peebles. The senior honorary president (Mr. George Mackay, a founder-member of the Club), assisted by Mrs. T. McEwan, presented the twenty-four sports trophies competed for annually in the golf, bowling, angling, badminton and whist sections.

**Ilford Ratepayers Criticise Rota.**—A meeting of the North Ilford Ratepayers' Association on March 20 decided to press for longer hours of dispensing on Sundays. They were told by some members that the present arrangement (three chemists open for one hour in the morning and one only in the evening for an hour) was inadequate. The secretary of the Essex Pharmaceutical Committee (Mr. G. F. Deeth, M.P.S.), in a letter to the local Press, replied to the criticism, pointing out that in Ilford there were more chemists' shops doing rota duties at present than were required to do so under the National Health Service regulations. He also drew attention to a paragraph in the regulations under which a doctor should supply a patient with urgent drugs for immediate use until supplies could be obtained from the chemist.

**Resolutions on Payment Delays.**—A recent meeting of the Lincolnshire (Holland) Executive Council agreed to support a resolution from the Lancs Executive

Council regarding the unsatisfactory pricing of prescriptions (see *C. & D.*, April 1, p. 413). It was stated that the public had not responded to the appeal for the return of medicine bottles and increased effort was needed if the chemist were to gain maximum benefit from the campaign.—A meeting of the Peterborough Executive Council on March 27 agreed to support the resolution.—The Essex Executive Council at a recent meeting also agreed to give it their support. It was stated that £160,000 was owing to chemists in the county for prescriptions supplied under the National Health Service. — Huddersfield Executive Council decided on April 15 to support the resolution. Mr. J. M. Beaumont, M.P.S., declared that final payments were eight months behind.

**Bolton Association Dinner.**—The annual dinner and dance of the Bolton Pharmaceutical Association was held on March 29, Mr. A. Booth presiding. Proposing "The Pharmaceutical Society," Dr. H. W. Bowyer (president, Bolton Medical Society) referred to the close co-operation existing between doctors and pharmacists. He did not think the Government, the public or the Press fully appreciated the work of the pharmacists in helping the National Health Service. Mr. J. F. McNeal (vice-president of the Pharmaceutical Society), responding to the toast, said that if chemists had insisted on an eight-hour day, he was sure the Service would have broken down. The Society was at present preoccupied with the education of pharmacists, a subject about which there were two schools of thought—those who wanted to see a development in the scientific aspect, and those who emphasised the need for a good practical working knowledge for pharmacists. Speaking of the increase in proprietary medicines, Mr. H. Steinman (a member of the Society's Council) said that to discourage "ethical" proprietary medicines would be to stifle scientific progress.

## IRISH NEWS

**S.O.S. for Baby Food.**—A call recent for supplies of a special full-cream food (unobtainable in Eire) for premature twins born in a Galway hospital was promptly dealt with by Mr. James Coleman (registrar of the Pharmaceutical Society of Northern Ireland) and Mr. H. F. Moore (member of the Society's Council). They secured a waiving of the regulations by the Food Ministry because of the urgency of the need.

**Child Shopbreaker.**—In the Dun Laoghaire children's court, recently, a thirteen-year-old boy was charged with breaking and entering the pharmacy of Mr. John P. Crowe, M.P.S.I., 60 Glashule Road, Dun Laoghaire. A Civic Guard sergeant produced a hatchet which he said was used by the boy to break into the shop. "I might never have been caught," added the sergeant, "had Mr. Crowe not returned to the shop late at night to make up a prescription."

**St. Joseph's Young Priests' Society.** The report presented to the annual meeting of the pharmacy branch of the St. Joseph's Young Priests' Society, recently recorded continued progress. Mr. Gerard C. O'Neill (president of the Branch) was in the chair, and the attendance included Mr. J. P. Kissane (vice-president, Pharmaceutical Society of Ireland) and many members of the Council. The wholesale and manufacturing sections of the trade were also represented. Mr. O'Neill welcomed all present. Good reports had come in from Cork, Limerick, and Waterford and the more recently formed centres in Sligo and Clonmel were also doing well. Mr. Michael D. Walsh (treasurer) reported subscriptions during 1949 of £327. The amount paid into the Students' Fund was £291. Tribute was paid to Mr. F. Meagher, a founder-member, who had died during the year. A photograph taken at the meeting is reproduced below.



**PHARMACISTS AT YOUNG PRIESTS' SOCIETY.**—Messrs. J. O'Rourke, P. A. Br. P. C. Cahill, M. P. M. D. Walsh, J. P. sane, P. G. Redm. T. B. O'Sullivan J. C. J. Cremen, with J. McCarthy and off of the St. Joseph's Young Priests' Society at the Society's annual meet



## TOPICAL REFLECTIONS

### Facilities for Study

When pharmacists know more exactly what changes in tuition for students Mr. Heseltine proposes, they will be better able to discuss them. Your editorial comment (p. 469) gives us appropriate thoughts on the subject. Mr. Heseltine is no doubt aware, as most of us are, of the present scarcity of teachers in scientific subjects. Unless their number is substantially increased in the near future, I am at a loss to know how new colleges or new departments of colleges are to be staffed. The adequate training of a teacher in any subject is not a quick and easy process: one of the present grievances of schoolteachers is that beginners are being pushed into the work after only one year's preparation. Assuming, however, that this obstacle is not over, we have to consider what the average annual number of newly qualified people should be. Is it, in fact, desirable that additions to the Pharmaceutical Society's Registers should be made at a much higher rate? We had better have, at this stage, the report on man-power referred to in the last paragraph of your comment. The complaint that students have to travel considerable distances for their courses of study is not very impressive. Fifty or sixty years ago schoolboys made daily journeys to and from places as distant from each other as Leeds and Bradford; for anything I know to the contrary, schoolboys still do so. And after all, we cannot expect things to be too easy.

### Points in Dermatology

Your report of the valuable address of Dr. J. Rogers on dermatological advances (pp. 474-75) should be carefully read. Pharmacists can help dermatologists in two ways—first by using their own chemical and physical knowledge to advise on the most suitable bases for medicaments, and secondly by observing, when opportunities arise, the effects of treatment on customers for whom they dispense. A casual remark by a patient in a pharmacy may lead to an important change in prescribing. In an early passage of his address Dr. Rogers gave a judicious definition of "an advance" in dermatology, pointing out that to merit this description a new substance must, *inter alia*, have less systemic side effects than known preparations already in use. Cases that might have been cured, he said, by older remedies were often "converted to a serious contact-type dermatitis"

by injudicious treatment with complex new preparations. Some of your readers could, no doubt, cite instances of spectacular cures of skin troubles by family doctors after specialists had laboured in vain. The author gave critical appraisements of penicillin, sulphonamides and antihistamine drugs; their limitations were briefly indicated. Internal treatment was also mentioned: the success of vitamin D<sub>2</sub> in cases of lupus vulgaris was one of the salient points. The choice of bases, a subject on which a good deal of work has lately been done, was referred to near the end of the address.

### T. L. Peacock

Your anthology selection on p. 470 forms, incidentally, a tribute to Thomas Love Peacock (1785-1866). Whoever may be the most important English novelist, it is arguable that for educated readers Peacock is the most entertaining. If you can find further references to pharmacy in his five (or is it six?) novels, I for one shall be glad to read them. The author was a public official who, in a more leisurely age than this, had time for a hobby that turned out to be his title to fame. There were other such officials. A passage in a recent biography of George Meredith, Peacock's brilliant son-in-law, claims that Dr. Middleton of "The Egoist" is a character based on Peacock. A portrait of the reverend doctor is contained in Chapter XX of Meredith's novel. Like one of the clerics to be found in Peacock's own pages, he was an expert in the judgment of wine; and the chapter mentioned depicts, among other traits of character, his epicurean enjoyment of a marvellous port which had been reposing in the cellar of his host for two generations. The host was unable to check the flow of the doctor's eloquence. "He was about as accordingly coupled with Dr. Middleton in discourse as a drum duetting with a bass viol; and when he struck in he received correction from the pedagogue-instrument. If he thumped affirmative or negative, he was wrong. However, he knew scholars to be an unmanly species; and the doctor's learnedness would be a subject to dilate on. In the cellar, it was the turn for the drum. Dr. Middleton was tongue-tied there. Sir Willoughby gave the history of his wine in heads of chapters; whence it came to the family originally, and how it had come down to him."

**Xrayser**



## NEW COMPANIES

**DENOL, LTD. (P.C.).**—Capital £500. To carry on the business of manufacturing, pharmaceutical and general chemists, etc. Wilfrid S. Lawson and Robert S. Dearden directors. R.O.: 13 Cambridge Terrace, Leeds.

**RATKIL CAPSULES, LTD. (P.C.).**—Capital £1,000. To carry on the business of manufacturers, wholesale and retail traders, etc. John R. and Robert J. R. Neill, directors. R.O.: 21 Grosvenor Street, London, W.1.

**WELTONS (CHEMISTS), LTD. (P.C.).**—Capital £3,000. To carry on the business of chemists and druggists, etc. Beatrice Welton and Hewett S. Linton, M.P.S., directors. R.O.: 13 High Street, Coventry, Warwick.

**HUTCHIN (LOUGHTON), LTD. (P.C.).**—Capital £100. To carry on the business of chemists and druggists, opticians, etc. Reginald C. Brown, M.P.S., and Gwendoline G. Brown, directors. R.O.: 197 High Road, Loughton, Essex.

**SHEWELL & SON, LTD. (P.C.).**—Capital £6,000. To acquire the business of a dispensing and photographic chemist, etc., carried on at 112 Central Road, Worcester Park, Surrey. Charles F. Shewell, M.P.S., and Hubert T. Shewell, directors.

**PEACOCK CHEMICALS, LTD. (P.C.).**—Capital £1,000. To carry on the business of wholesale, retail and manufacturing chemists and druggists, etc. John Van Den Bok and Maurice E. Smith, directors. R.O.: 21 Water Lane, London, E.C.3.

**"NAARDEN" (LONDON), LTD. (P.C.).**—Capital £10,000. To carry on the business of manufacturers and dealers in chemicals, drugs, oils, etc. Willem A. Van Dorp and Arthur G. Drew, directors. Solicitors: Aukin Courts & Co., 5 Queen Anne Street, London, W.1.

**J. H. C. SUTTIE, LTD. (P.C.).**—Registered in Edinburgh. Capital £8,000. To carry on the business of chemists and druggists, opticians, etc. A. S. Cameron, M.P.S., and Elizabeth F. Cameron and John Morton, M.P.S., directors. 32 Deepdene Road, Westerton, Bearsden, Glasgow.

**LONDON CAPSULE CO. (1950), LTD. (P.C.).**—Capital £5,000. To acquire the business of a capsule manufacturer carried on at Empire Works, Mitcham Road, Croydon, Surrey; and to carry on the

business of manufacturers of and dealer in capsules and closures for medicine bottles, etc. Paul Courtney, Frank M. Fletcher and W. R. Cunningham, directors.

## Company News

**ENERGEN FOODS CO., LTD.**—Mr. S. J. Gibbins, F.C.A., has been appointed director.

**CUSSONS, SONS & CO., LTD.**—The Council of the London Stock Exchange has ordered the quotation of £50,000 nominal ordinary stock in the company.

**H. R. NAPP, LTD.**—Mr. E. J. Dowd and Mr. C. B. Foyster have been appointed directors. Mr. Dowty was former manager and Mr. Foyster is secretary of the company.

**BRITISH GLUES & CHEMICALS, LTD.**—Mr. C. G. Smith, B.A., and Mr. D. Walton, A.C.A., have been appointed additional directors. [Corrected note. We regret that the appointments were attributed to another company.—EDITOR.]

**BUCKLEY-BOWKER TABLET CO., LTD.**—Mr. W. H. Palmer and Mr. H. Eggar have been appointed directors of the company. Mr. Palmer has been works manager for the past thirty years, and Mr. Eggar for many years on the administrative staff.

## LEGAL REPORT

**"Absolute Discharge" Granted.**—The Wirral magistrates' court, Neston, on April 14. Mr. Myr Gwynne Jones, M.P.S., of Cross, Neston, Ches., was granted an absolute discharge from a case in which he was prosecuted for an offence under the Dangerous Drugs Act. The chairman stated that the magistrates were agreed there had been a technical offence which was felt defendant would not repeat. It had been stated in court that when an inspector visited the shop, defendant came from the rear of the premises. A new cupboard, he said, was locked. When the inspector asked to see inside the cupboard, defendant went to a drawer and took the key. He agreed that the key should have been kept in his possession. For Mr. Jones it was stated that he and Mr. Evans, who were alone in the shop at the time, were co-directors, and it was because Mr. Evans was not qualified that Mr. Jones pleaded guilty to a technical offence. He was kept the key in the pocket of his coat.

## BUSINESS CHANGES

**BOURJOIS, LTD.**, have opened a factory at 452 Basingstoke Road, Reading (telephone: Reading 81201), to house the whole of the company's soap manufacturing.

**MR. JOHN WRIGHT, M.P.S.**, has acquired the business at 58 Castlegate, Penrith, Cumberland, formerly owned by Mr. W. Winburn, M.P.S. He will continue to trade as W. Swinburn.

**THOMAS KERFOOT & CO., LTD.**, Bardsley Vale, Lancs, have appointed Mr. C. F. Sandersby, 48 Sunny Bank Road, Potters Bar, Middlesex, to call upon chemists in west London and adjacent counties.

The Administration of Enemy Property Department of the Board of Trade has removed to Lacon House, Theobalds Road, London, W.C.1 (Telephone: Chancery 4411).

**BOOTS, LTD.**, reopened on March 31 their Royal Exchange, Manchester, branch, which was destroyed by enemy action during the 1939-45 war. The shop is at present the same size as pre-war, but will

be even larger when completed. Lord Trent performed the opening ceremony.

**BRITISH SCHERING, LTD.**, have appointed Mr. T. E. Riddle, M.P.S., to be their assistant home sales manager. Mr. Riddle joined the company in 1941 as representative in the Northern Counties after having spent ten years in a similar capacity with the former German subsidiary company (Schering, Ltd.). Mr. J. E. Colley has been appointed as advertising executive. Mr. Colley was formerly with Menley & James, Ltd., in a similar capacity.

**EVANS MEDICAL SUPPLIES, LTD.**, have made the following appointments:—Mr. A. Hudson, M.P.S., to be chemists' representative for North-west London; Mr. R. W. Adams to be medical representative for Berks, Bucks and South-west London (from May 1) in succession to Mr. G. T. Randal Davies, M.P.S., who joins the overseas division of the company. Mr. A. K. Brien, M.P.S., formerly chemists' representative for North Liverpool and the Isle of Man, has also joined the overseas division.

## ANNUAL MEETINGS AND OFFICERS

**Preston Pharmacists' Association.**—Officers for the year are:—*President*, Mr. J. B. Pomfret; *Vice-president*, Mr. F. Smithson; *Secretary*, Mr. C. Orrell, 250 Deepdale Road, Preston; *Treasurer* Mr. I. Henderson.

**Isle of Thanet.**—The following were elected officers of the Isle of Thanet Branch of the Pharmaceutical Society at Margate on March 20:—*Chairman*, Mr. J. F. Taylor, Ramsgate; *Vice-chairman*, Mr. R. W. Muir, Broadstairs; *Secretary*, Mr. H. H. Duckett, 33 Upper Dane Road, Margate.

**Slough Branch and Association.**—The following have been elected officers of the Slough Branch of the Pharmaceutical Society and Slough Chemists' Association:—*Chairman*, Mr. N. Hart; *Vice-chairman*, Mr. A. R. Barton; *Treasurer*, Mr. H. P. Elliott; *Secretaries*, Miss M. J. Hincks, Epton Hospital, Slough, and Mr. C. W. Warewood, Old Windsor Hospital, Old Windsor.

**Wallasey Pharmacists' Association.**—At the annual meeting of the Wallasey Pharmacists' Association on April 3, the following officers were appointed: *President*, Mr. H. T. Spence; *Vice-president*,

Mr. N. Jones; *Secretary*, Mr. A. R. Allen, 64 Martins Lane, Liscard, Wallasey, Cheshire; *Treasurer*, Mr. P. N. Thompson. To increase its membership the meeting approved the election of associate members.

**Edinburgh.**—The following are elected officers of the Edinburgh and South-eastern Scottish Branch of the Pharmaceutical Society:—*Chairman*, Councillor George Hedderwick; *Vice-chairman*, Mr. Frank Hepburn; *Secretary* and *Treasurer*, Mr. Eric Knott, 72 Craigleith Road, Edinburgh. Mr. J. C. Somerville, who presided, spoke on "Current Pharmaceutical Affairs." He dealt with the educational policy of the Society and the man-power problem, stressing the possible formation of a class of pharmaceutical technicians who would be under the jurisdiction of the Society. In the subsequent discussion, Mr. Bateman said he hoped the group would be confined to persons who had served a recognised apprenticeship. Mr. Wood asked if it would not be possible for fuller reports of the meetings to be given in trade papers. Mr. Knott, in reply, said that as secretary of various pharmaceutical associations he had always found the trade Press helpful and sympathetic.

## BIRTH

HOWELLS.—At the nursing home at 23 Kimbolton Road, Bedford, on April 14, Davina (née Maxwell) wife of Trevor W. Howells, M.P.S., 28 Linden Road, Bedford, of a son.

## MARRIAGES

CALDER — McNAIR. — At Memorial Chapel, Glasgow University, on April 1, George Alexander Calder, Elgin, to Marion Macdonald McNair, M.A., daughter of Mr. John McNair, M.P.S., Kirk Street, Strathaven, Lanarks.

ERSKINE—GILCHRIST. — At St. Matthew's Manse, Edinburgh, on April 15, John, elder son of the late Mr. William Erskine, Edinburgh, to Jean Parker Gilchrist, M.P.S., c/o 17 Bristo Place, Edinburgh.

MYERS—FALCONER.—At St. Mary's Roman Catholic Church, Halifax, on April 13, John Annesley Myers, Ph.C., chief pharmacist Bradford Royal Infirmary, Bradford, Yorks, to Jean Dorothy Falconer (dietician at Halifax Infirmary).

## DEATHS

DEEKS. — On March 29, Mr. William John Bevins Deeks, M.P.S., the Savoy Holiday Camp, Yarmouth, Isle of Wight. Mr. Deeks qualified in 1912.

FARADAY.—Suddenly, on March 31, Mr. William Bernard Faraday, M.P.S. (sales manager of John Wyeth & Bro., Ltd., London). Mr. Faraday was apprenticed to the late Mr. Stephen Harris, Droitwich, and qualified from the London College of Pharmacy in 1909. After a short period as manager in retail pharmacy he joined the staff of Burroughs & Wellcome Co., London, and later served as sales manager of Hoffman La Roche, Ltd., London; as office and sales manager to E. T. Pearson & Co., Ltd., Mitcham, Surrey (1915-27); and as London manager of Bristol-Myers Co., Ltd. (1927-36). In 1936 he joined John Wyeth & Bro., Ltd., and was appointed sales manager in 1937, a position he retained until his death. Mr. Faraday was interested in the history of pharmacy, was a member of the Mitcham urban district council, chairman of its public health committee, and a member of the Wandle Valley Joint Hospital Board. A colleague writes:—The sudden passing of Mr. Faraday was a great shock to his colleagues, family and friends. His personality and

genial temperament won him many friends inside and outside pharmacy. To his tea of representatives he was affectionately known as "Uncle Bill," a sobriquet lived up to by giving wise counsel and helping hand whenever required. It was particularly unfortunate that he was prevented from enjoying several years from business cares, as he was on the verge of retiring at sixty-five, but possibly to die in harness would have been his own preference.

GOWANS. — At his home, 263 Antrim Road, Belfast, recently, Mr. James Horn Gowans, M.P.S., M.P.S.I., M.P.S.N.I., aged seventy-nine. A native of Scone, Perth. Mr. Gowans went to Belfast in 1890 and for the past forty-eight years had been in business there as a pharmacist. He qualified as a member of the Pharmaceutical Society of Ireland in 1901 and as a chemist and druggist (in Great Britain) the following year. He was registered as a member of the Pharmaceutical Society Northern Ireland in 1926. Mr. Gowans took a keen interest in astronomy and was also well versed in church history. He survived by his son, Mr. Alan T. Gowans, M.P.S.N.I., and a daughter. The funeral took place on April 11 at Carnmoney.

JACQUES.—On March 3, Mr. Sydney Foster Jacques, M.P.S., 202 Cherry Lane, Liverpool 4. Mr. Jacques qualified in 192

SAVAGE.—At his home, 36 Monkridge Crouch End Hill, London, N.8, on April 12, Mr. Thomas Evans Savage, M.P.S., aged eighty-one. A member of a Shropshire farming family, he came to London as a young man and qualified as a chemist and druggist in 1893. He was later in business at The Broadway, Crouch End, London, N.8, for over fifty years and retired in 1946.

SUMPTION.—In July 1949, Mr. Arthur Carlyon Sumption, M.P.S., 65 High Street, Blackwood, Mon. Mr. Sumption qualified in 1911.

SWAN.—On March 16, Mr. William Swan, Ph.C., 15 Bullroyd Avenue, Bradford, Yorks. Mr. Swan qualified as a chemist and druggist in 1887 and passed the Pharmaceutical Chemist examination in 1891.

THOMAS.—At his home, Arfryn, Whilford, Carmarthens, on April 2, Mr. T. Gilbert Thomas, M.P.S., aged sixty-eight. Mr. Thomas qualified in 1907, and was in business as a chemist and dentist at Risc, Mon, until he retired in 1926.



## PERSONALITIES

MR. CAQUOT (France) has been elected *resident* of the International Organisation for Standardisation.

MR. C. E. SPEIGHT, M.P.S., Beaconsfield, has been elected to fill a vacancy on the Buckinghamshire Pharmaceutical Committee.

MR. DAVID Woulfe, M.P.S.I., the new *resident* of the Irish Drug Association, is a native of Castleisland, co. Kerry. He began his pharmaceutical career with the late Mr. R. B. Woulfe at Abbeyfeale, and later gained further experience with Mr. John Mockler, M.P.S.I., Thurles. After qualifying as a Licentiate in 1933, Mr. Woulfe managed the pharmacy of Mr. S. T. Smith

at Terenure, Dublin, and later Mr. A. Drumgoole's pharmacy, Kilcock, co. Kildare, which he subsequently bought. In 1939 he opened a second pharmacy in Wrafton Street, Dublin. Mr. Woulfe has been a member of the Executive Committee of the I.D.A. for nearly ten years, and *vice-president* for the past two years. He is a member of the Irish Chemists' Golfing Society.

MR. T. T. JOHNSON, M.P.S., Field End Road, Eastcote, Pinner, Middlesex, has been elected chairman of the Eastcote Chamber of Commerce.

MR. JAMES MURPHY, M.P.S.N.I., Warrenpoint, co. Down, has been appointed *justice* of the peace for the county. A native of Portrush, co. Antrim, Mr. Murphy has been in business as a pharmaceutical chemist in Warrenpoint for over twenty years.

PROFESSOR FRANK BELL, D.Sc., Ph.D., R.I.C., has been appointed to the chair of chemistry of the Heriot-Watt College, Edinburgh. Professor Bell, who will take up his new duties on September 1, is at present head of the department of chemistry and pharmacy at the Belfast College of Technology, with the status of Extraordinary Professor of Chemistry at Queen's University, Belfast. He studied at Queen Mary College (University of London) and

at Battersea Polytechnic, London. In 1924 he graduated B.Sc. (Lond.) with first-class honours in chemistry, was awarded the degree of Ph.D. by the same university in 1926 and the D.Sc. degree in 1932. After a short period in industry he was appointed lecturer in chemistry at Battersea Polytechnic and later at Blackburn Technical College. He was principal at Lancaster Technical College from 1941 to 1946.

## INQUESTS

**Thiopentone Death.**—At an inquest in Manchester on January 19 on a man who died after being admitted to Ancoats Hospital, Manchester, following injury by a furnace blast, a doctor stated that she had given the man two injections of thiopentone as an anæsthetic. He collapsed and died immediately after receiving the second dose. In the doctor's opinion the man had died from heart failure because he was unusually sensitive to the drug. A verdict of accidental death was returned.

**Capsules in Wrong Box.**—At an inquest at Ramsgate on April 11, on a six-weeks-old boy who died at Ramsgate General Hospital after being admitted with stomach trouble, a staff nurse said she had placed three capsules of Nembutal in a carton marked Chloromycetin (the drug which the child had been prescribed) and had hidden the carton in the back of the drug cupboard "in a different place from where it was normally kept." It was a rule that drugs should be labelled when moved from one box to another. The Nembutal bottle was sent to the dispensary for refilling. A night nurse said she found three capsules in the Chloromycetin packet and took them to the night sister, who read the directions on the packet and handed one of the capsules to her. She made it up into liquid form and gave it to the child. The following morning she was shown a flat white box containing Chloromycetin in powder form, which was also in the drug cupboard. The sister said she thought it rather strange when a yellow capsule rolled out of the carton, and asked the nurse if there was another box. The nurse said she could not see another, and added that the Chloromycetin in powder form had been in that box before. The sister stated that she had not previously seen Chloromycetin in capsule form. Recording a verdict of death by misadventure, the coroner suggested that the hospital staff should have their knowledge of new drugs "brushed up."

## TRADE NOTES

**Change of Name.**—Evan Williams Co., Ltd., Aintree Road, Perivale, Middlesex, state that the Evan Williams toning packs are the former henna, chamomile and graduated henna shampoos.

**Selling Agents in Scotland.**—A. E. Stannard, Ltd., Fleet, Hants, announce that they have appointed J. Shaw & Son (Glasgow), Ltd., 205 Hope Street, Glasgow, C.2, their sole selling agents in Scotland.

**Display Outer.**—Silvikrin Laboratories, Ltd. (selling agents: Prichard & Constance (Manufacturing), Ltd., North Circular Road, London, N.W.10), are now issuing Silvikrin soapless shampoo in a "help yourself" outer.

**Purchase Tax Changes.**—John Wyeth & Bro., Ltd., Clifton House, Euston Road, London, N.W.1, announce that Ossivite capsules are no longer chargeable with purchase tax, but that no rebate can be given on any stocks held by chemists.

**Tablets to Own Formula.**—G. O. Woodward & Co., Ltd., 146 Larkhall Lane, Clapham, London, S.W.4, undertake the manufacture of tablets to customers' own formula. They have in stock a range of tablets of the B.P., B.P.C., and N.F.

**"Modern Shape" Hair Brush.**—Oakfield & Co., Whielden House, Whielden Street, Amersham, Bucks, have produced

single-strand Nylon pin. A free boni offer is made of two dressing-table cloth brushes with each dozen, or one brush with each half-dozen, of any style of Wyrex hair brushes ordered prior to May 31. Details are to be found on another page.

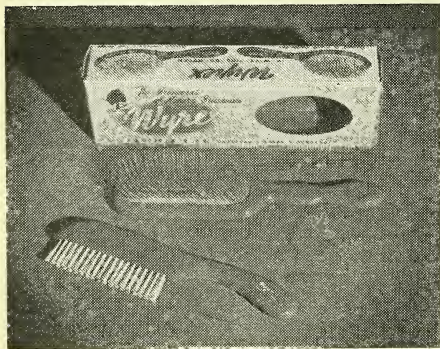
**Overseas Visits.**—Mr. G. R. English, deputy managing director of Bourjois Ltd., Queen's Way, Croydon, Surrey, is visiting America for the purpose of discussing marketing problems with the directors of Bourjois, Inc. Mr. R. G. Pattinson (export director) is in Bombay arranging for the manufacture of the company's products in India.

**Changes of Price.**—New prices for certain packs of sulphadiazine and Sulphatriad were put into effect by May & Baker Ltd., Dagenham, Essex, on April 17. They affect the twenty-five, 100, 500 0.50-gm. tablet packs of Sulphatriad and sulphadiazine, the 25-gm., 100-gm. and 500 gm. pack of sulphadiazine powder and the six and twenty-five 4-c.c. ampoule packs of sulphadiazine sodium.

**"Different" Atomisers.**—S. Murray & Co. Ltd., 45 St. Pancras Way, London N.W.1, are the actual manufacturers of atomisers and sprays, which differ from types in general use in that each may be used for any type of spraying compound without the necessity of adjusting the nozzle of the instrument. All components in direct contact with fluid are made of pure nickel. Outer components are heavily chromium-plated.

**Derby Chemist's Publicity Enterprise.**—Harts The Chemists (Derby), Ltd., 3 Cornmarket, Derby, booked a full-page advertisement in the "Derby Telegraph" recently for announcements by a number of cosmetic manufacturers for which they are agents. The announcements surrounded a 1,000-word article by a beauty consultant, Messrs. Harts report that, despite the nearness of the Budget, toilet sales increased beyond expectations as a result.

**Illustrated Sponge List.**—Cresswell Bros. Sponges (International Sponge Importers, Ltd.), International House, Buxton Street, Camden Town, London, N.W.1, have issued a new broadsheet giving illustrations and prices of their natural deep-sea sponges. A travelling showroom displaying a range of sponges of all qualities and at all prices is visiting the North



at the request of a Canadian buyer a rubber-cushioned hair-brush claimed to be entirely different from any other such brush hitherto on sale. The Wyrex Modern has handles in pastel shades or of polished grained wood; the filling, according to choice, is Nylon tufts, wire pins or the new



Eastern Counties shortly. Chemists in the area will be notified of the day on which the showroom will be in their district.

**Display Matter.**—Shown with this paragraph are two out of three new display pieces issued by Reckitt & Colman, Ltd., Hull. The display for Dettol was origi-



ated and printed for the company by James Haworth & Brother, Ltd., London, W.14. The Disprin showcard was designed in the company's own studios. A display piece (not illustrated) has been prepared for Bathjoys bath salts.

**New Cosmetic Shades.**—DIXOR, LTD., 11, Leonard's Works, Mortlake, London, W.14, announce that Velouté de Dixor, "the original combined powder cream," is now available in peach, ochre and sun-gold shades in addition to the existing ivory and natural. The product is issued in tubes of two sizes.—PONDS EXTRACT CO., LTD., Wadsworth Road, Perivale, Middlesex, are now issuing Ponds lipsticks in three new additional shades:—Scarlet, mulberry and pink rose. A new face powder shade (rose rachel) is being introduced in May 1.

**Bonus Offers.**—A bonus offer of fourteen to the dozen Rhyso-Val 25's by COATES & COOPER, LTD., Pyramid Works, West Drayton, Middlesex, terminates on April 29.—HERTS PHARMACEUTICALS, LTD., Welwyn Garden City, Herts, have increased the display bonus on Nivea creme; the new terms offer two free 368-size tins for every 10s. worth of Nivea products ordered (minimum order £3. and conditional on display being made).—To reintroduce Jean Marie Farina "the world's premier eau de Cologne" ROGER & GALLET (LONDON), LTD., Lechmere Road, London, N.W.2, are offering bonus terms for all details of which they invite chemists to write or 'phone (Willesden 2171).

**A New Product.**—Evans Medical Supplies, Ltd., Speke, Liverpool, 19, announce that limited supplies are available of Landrax, a sterile, non-toxic, pyrogen-free solution of cytochrome C (Evans) for intravenous injection. Cytochrome C is an iron porphyrin compound necessary for the activation of cytochrome oxidase, a respiratory enzyme that plays an important part in tissue-oxidation processes. Landrax is issued in 5-mil ampoules, each containing 50 mgm. cytochrome C (Evans) in cartons of one or six ampoules. Technical literature is available from the medical information department of the company.

**Package Changes.**—J. C. ENO, LTD., Watford, Herts, announce that Eno's Fruit Salt is again being issued in the wrapper in which, prior to the 1939-45 war, the product was famous for over eighty years.—A leaflet is being circulated by SHADFORTH, LTD., manufacturing chemists, 49 King William Street, London, E.C.4, to



all wholesale and retail chemists, announcing the introduction on May 1 of new packs, prices and terms for the Shadforth series of medicinal preparations. The label colours are:—Prussian blue for Blue Lions tonic; bottle green for White Lions antacid tablets; and mulberry for Shadforth's diuretic tablets.—The VELVET CREPE PAPER CO., LTD., Alperton, Middlesex, illustrate on another page the new wrapping that has been adopted for Velvex toilet rolls. As will be seen, the medicated roll is completely wrapped and sealed. The earlier Velvex blue roll was discontinued on March 1, in favour of the present red-printed wrapper.



## OVERSEAS NEWS

**Canadian Soap Tax Withdrawn.**—Provisions made in the recent Canadian Budget include the withdrawal of the 5 per cent. special excise tax on toilet soap. The tax was withdrawn because of the difficulty in differentiating between certain kinds of household and toilet soaps.

**New French Organisations.**—Consultative technical committees have been established under the auspices of the French Ministry of Health to advise on demands to import (a) pharmaceutical products, (b) drugs and herbs, and (c) biological products. The Ministry has also set up a National Laboratory for the control of anti-venereal medicaments, serums, vaccines and other products of microbial origin.

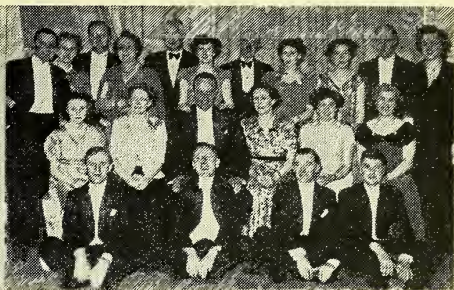
**Conference on History of Science.**—The Netherlands Branch of the International Union of the History of Science is organising the Sixth International Congress of the History of Science to be held at the University of Amsterdam, August 14-21. Of the five sections one will be devoted to the history of chemistry, mineralogy, pharmacy and biology; and a second to the history of medicine. The congress secretary is Professor R. J. Forbes, Haringvlietstraat 1, Amsterdam-Z., Holland.

**Help for Research in Austria.**—To arrest a decline in the standard and volume of scientific research undertaken in Austria, the Austrian Association of Industrialists is making available an amount of one million Austrian schillings to the Academy of Sciences in Vienna (especially its radium research institute), the Universities of Vienna, Graz and Innsbruck, the Technical High Schools of Vienna and Graz, the Institute of Agriculture, the Institute for World Trade and the Emergency Association of Austrian Scientific Associations, as well as to certain other bodies.

**Pharmaceutical Organisation in Germany.**—A meeting of German pharmacists was held at Frankfurt, recently, under the presidency of Dr. Hans Meyer (editor of "Pharmaceutische Nachrichten") to draft a code covering a number of aspects of pharmaceutical organisation. Seven clauses were drafted laying down the conditions under which a pharmacist would be granted permission to acquire an existing, or establish a new, retail business in the country.

**Indian Pharmaceutical Manufacturer.**—The tenth annual meeting of the India Pharmaceutical and Allied Manufacturer and Distributors' Association, Ltd., was held in Bombay on April 4. The retiring president (Mr. R. Lumley, M.P.S.) called for attention to be paid to the indiscriminate granting of import licences to newcomers to the trade; and the issue of licences to persons other than manufacturers or their accredited agents for items which should only be imported by individuals or firms within that category. The Association, he said, had been invited to co-operate in the compilation of the first Indian Pharmacopoeia. The following were elected officers and members of the managing committee 1950/51: *President*, Dr. T. A. Schinzel; *Vice-president*, Mr. J. A. Swenarton; *Secretary*, Mr. E. H. Baldock; *Treasurer*, Mr. H. G. Roberts. *Managing Committee*, Messrs. W. C. Caswell, A. L. Chandavar, Kar. J. J. Harris, R. A. Haryott, C. T. Healey, H. Oberle, and D. B. Thakore.

**Drug Control Decisions.**—At its second session, held in Geneva recently, the World Health Organisation's Expert Committee on Drugs Liable to Produce Addiction considered proposals for reclassifying several compounds. The committee found unacceptable a request from the Swiss Government that Ipecopan, a mixture of emetine and cephaeline hydrobromides with the total alkaloids of opium (as hydrochlorides) should be exempted from strict control under the 1925 Convention. A request from the French Government that morphylethylmorphine should be included in the codeine group was also rejected. The request was based on pharmacological examinations indicating that the compound equals codeine in activity but is three times less toxic. The committee considered that there were not sufficient data available for estimating its addiction-producing properties, and that the compound was probably convertible to morphine. For that reason it should be included among the ethers of morphine other than methylmorphine (codeine) and ethylmorphine, and should be subject to the restrictions applying to that group. Reports from the United States that prolonged administration of barbiturates (for ninety-two to 144 days) gave rise to symptoms of intoxication similar to those of alcoholism, and that sudden withdrawal produced a psychosis resembling delirium tremens, were noted.



## NEWS IN PICTURES

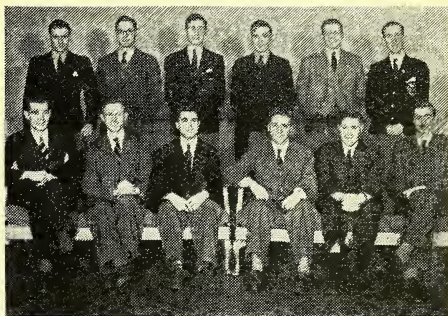
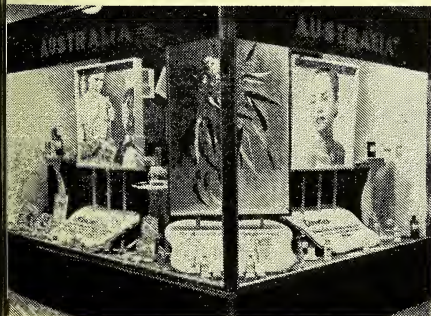
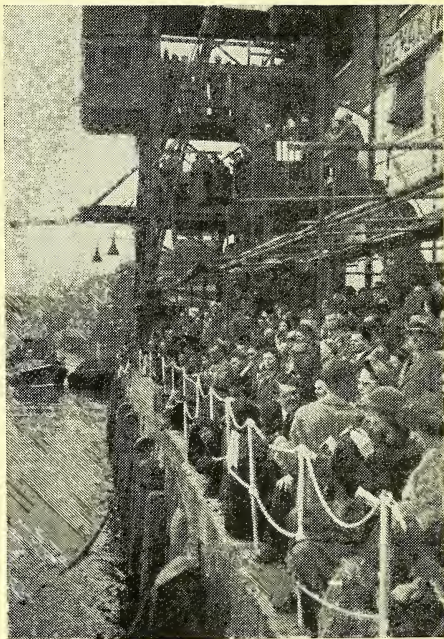
1. **GUESTS AT DUBLIN DINNER.**—Irish Chemist Golfing Society's members at dinner given by Anglo-Irish Chemicals, Ltd., recently.

2. **BELFAST DANCE.**—The chairman (Mr. E. B. Williamson) and guests at the annual dance of the Associates' Section of the Ulster Chemists' Association.

3. **VANTAGE POINT.**—Privileged members of the medical profession and their friends viewed the recent Oxford-Cambridge boatrace from the Bemax factory wharf of Vitamins, Ltd., Hammersmith.

4. **AUSTRALIAN EUCALYPTUS ON DISPLAY.**—Medicinal and cosmetic uses of Australian eucalyptus portrayed in a window display at Australia House, London, recently. Samples of many commercial derivatives were on show, including pipertone (from which thymol is produced) terpineol, citronellal, etc. From *E. macrorhyncha*, rutin may be obtained.

5. **WORKS VISIT.**—Medical students from Glasgow University photographed during a recent visit to the Nottingham and Beeston works of Boots Pure Drug Co., Ltd. The visit included a dinner party at which members of the company's scientific staff were present, and Sir Jack Drummond (director of research) gave a brief review of the company's research activities.





# NATION'S HEALTH AND THE HEALTH SERVICE

## Review of the Ministry's report on the year 1948-49

THE report of the Ministry of Health recently published for the year ending March 31, 1949, contains, in addition to the expected wealth of health statistics for that year, a record of the inauguration of the National Health Service, and of its functioning during the remainder of the year. It provides an overall picture of how and to what extent pharmacy and its allied industries contribute to the nation's health through the Service. Although the pharmaceutical service in general is allotted only one paragraph, the  $3\frac{1}{2}$  lines state factually enough that the service was "adequate to the needs of the public despite a great increase in the work," and that "though the increase overwhelmed the pricing bureaux, it had been handled satisfactorily by the pharmacists." A page and a quarter is devoted to a review of chemists' remuneration, dispensing statistics, and prescription pricing during the period.

### Great Medical Progress

1948 is described as a year of great medical progress—the discovery that penicillin consisted of at least 12 different penicillins; the fact that pure penicillin G was put on the market; the discovery of vitamin B<sub>12</sub>; successful trials with a new diphtheria prophylactic; etc., being given as supporting evidence. A note of the more important scientific papers and discussions at the British Pharmaceutical Conference, 1948, is given, together with a record of discussions initiated during the year by the Ministry on the labelling of ampoules. A small commission (consisting of a surgeon, a pharmacist, and a theatre sister) set up consequently to investigate the methods of labelling, storing and using injectable and non-injectable fluids, completed its visits to hospitals in April 1949.

The report reveals that the Medresco hearing aid manufactured under the first contract (Mark I) involved the use of American components, and therefore the first order was limited to 41,000 instruments. Mark II was designed to permit the sole use of British components, and a second order was placed which will permit a substantial increase in the rate of issue to patients. 752 kilos of streptomycin were distributed by the Ministry during the year, and £500,000 worth of medical and surgical equipment for distribution to hospitals obtained from the Ministry of Supply's surplus stocks. Inspection of contract

purchases resulted in a rejection of 3 per cent. (99,058 items) of the total items inspected during the year—a rate described as "too high" and as drawing attention to the need for improvement in the quality of production. The standard of packaging particularly of goods for abroad, during the year was criticised.

The composition of staffs in hospital pharmaceutical departments is summarised in the table below:—

HOSPITAL PHARMACEUTICAL DEPARTMENT STAFFS

STAFF	REGIONAL BOARD HOSPITALS	TEACHING HOSPITALS	TOTAL
Pharmacists (whole time)	772	188	960
Pharmacists (part time)	96	23	119
Dispensers (whole time)	336	80	416
Dispensers (part time)	118	9	127
Students (pharmacy)	57	7	64
Students (dispensers)	21	4	25

The Chief Medical Officer (Sir Wilson Jameson) describes the vital statistics as "wonderful." A total death rate of 10.8 with a civilian death rate of 11.0, both the lowest on record, gave a smaller number of deaths than any year since 1930, when there were 3,000,000 fewer people in the country. Compared with 1938 (which had the lowest standardised mortality of any year before the second world war) the mortality index at all ages showed a 20 per cent. decline. There were striking reductions in deaths from cerebrospinal fever, diphtheria (which reflects the continuing success of the immunisation scheme), nervous diseases, bronchitis, pneumonia, infantile diseases, and tuberculosis (a new low record). The proportion of deaths from tuberculosis occurring in persons not notified before death remains high, however, and is increasing. Plans were made for trials of B.C.G. vaccine. Deaths from cancer in 1948 numbered 79,537, an increase of 1,687 on those in 1947. The increases are largely accounted for by the greater number of persons living at the ages most subject to cancer. Centralisation of treatment is held to have put this country ahead of many other countries in the general management of cancer. Whooping cough was prevalent with 146,383 cases (the



ghest incidence since 1941) but had the lowest case fatality recorded, 0.51 per cent. Nevertheless, it ranks high among the notable diseases as a cause of infant deaths, killing more than twice as many children as measles (748). Field trials of British and American vaccines against whooping cough were being undertaken by the Medical Research Council.

Acute poliomyelitis and polioencephalitis incidences were higher than any year except 1947; deaths numbered 241, more than any previous year except 1947 (707) and 1938 (256).

The small decrease in the issues of dried plasma during the year was perhaps attributable, the report states, to a growing realisation of the risk of transmitting homologous serum jaundice by plasma or serum transfusion. Plans were made to try the effect of ultra-violet irradiation in sterilising plasma containing the infective agent. There were sixty-six reported cases of the disease, accounting for nine deaths.

A comparison of N.H.S. and National Health Insurance dispensing figures is shown in the following table.

N.H.I. AND N.H.S. DISPENSING FIGURES COMPARED  
(ENGLAND AND WALES)

Data	July to Sept. 1947	July to Sept. 1948
Number of insured persons on doctors' prescribing lists ...	17,802,473	36,750,000 (estimated)
Number of prescriptions dispensed by chemists ...	15,391,014	36,146,227
Average number of prescriptions per insured person ...	.8645	.9835
Total cost ...	£1,304,327	£4,798,590
Average cost per prescription ...	20.34d.	31.861d.
Average cost per person ...	17.57d.	31.337d.

Reports are given of three cases of anthrax among workers in a gelatin factory. Careful testing of the product for anthrax organisms has been emphasised.

## PHARMACEUTICAL SOCIETY OF IRELAND

Mr. T. C. SCOTT (president) was in the chair at the monthly meeting of the Council of the Pharmaceutical Society of Ireland on April 11. Other members present were Messrs. P. C. Cahill, P. A. Brady, J. Fullam, C. D. O'Shea, R. Daly, A. A. Maher, J. J. Roche, G. C. O'Neill, and J. Costello. Apologies were received from Messrs. J. Gleeson, J. A. O'Rourke, H. P. Corrigan, P. F. McGrath, and P. Brooke-Kelly.

Visitors were appointed to the forthcoming Licence examinations. Preliminary registrations were notified in respect of Matthew Gogarty, James Kelly, and Catherine Veronica Moran. An application by Mrs. Joan Mitchell (née Walsh) M.P.S.I., requesting change of name in the register on marriage, was granted. The Council congratulated the registrar (Mr. James G. Coleman) on his recovery from recent operation. Mr. Coleman reported on the deaths of Messrs. John Macauley, M.P.S.I., and William Esler, L.P.S.I.

The reports of the House, Law and Schools committees were approved. Mr. ROCHE suggested that the examiners in chemistry and pharmacy should allow optional questions as did the universities, and it was decided to bring the matter before the next meeting of the board. The following changes of address were notified:—Miss Kathleen Deery, M.P.S.I., to

Culladine, Cunningham Road, Dalkey; James Duggan, M.P.S.I., to 49 Summerhill Parade, Dublin; John Riordan, M.P.S.I., to 31 Bandon Road, Cork; Michael Tyrrell, M.P.S.I., to Flanagan's Medical Hall, Shrule co. Mayo; Dr. G. A. Pemberton Wright, M.P.S.I., to 56 Halkett Place, St. Helier, Jersey, Channel Isles. The Licence certificates of the following were signed and sealed: Philomena Feehan Patrick Hughes, Thomas Lyons, and James Malone. The following were elected members of the Society: Miss Mary B. Delaney, Messrs. John P. McCluskey, John Riordan and James Sheil. Mr. Daniel Sheahan, L.P.S.I., Blackrock Pharmacy, Dundalk co. Louth, was nominated for membership. At a meeting of the Benevolent Fund committee some grants were passed for payment.

The following candidates were successful in the April Registered Druggist examination: Thomas F. Hinchy, Michael F. Howard, Eleanor Ryan, Jeremiah Walsh, and Daniel M. Fleming.

**Finnish Trade Guide.**—The 1950 edition of the Finnish Foreign Trade Directory—published since 1921—gives information regarding Finnish industries, exporters, importers and agents engaged in foreign trade. Copies may be obtained from the Finnish Foreign Trade Association, Helsinki, Finland.

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VOL. CLIII APRIL 22, 1950 No. 3661

## The Mixture as Before

HAVING carried out his annual examination of the nation's financial health, the Chancellor has decided to carry on with the treatment virtually unchanged. While the wishful thought was always in the background that he might make a substantial increase in income tax allowances, or partially remit purchase tax, there were few who confidently anticipated any great change. Indeed, given (a) that the Budget is today a major instrument of economic policy, (b) that full employment is at the very core of the Government's purpose, and (c) that "freezes" are the order of the day, a Budget on the previous lines is seen to have been inevitable.

So far as industry is concerned the few changes made may nevertheless have far-reaching effects. The imposition of a 33½ per cent. tax on commercial vehicles "to reduce the number on the home market" comes at a time when a new system of carrier charges is under consideration. Besides diverting more vehicles overseas, the tax may be calculated to divert more traffic from the roads to British Railways. Coupled with the rise in petrol price per gallon by ninepence to 3s., it will certainly complicate and make more costly the distribution of goods to retailers. Distribution of pharmaceuticals will be affected as much as any. Use of the revenue thus gained to reduce income tax in the lower rates (new tables of P.A.Y.E. contributions are being made ready for the first pay day after June 1) will effect a very slight move in the direction of easing the condition of

those whose only other hope of improved circumstances would be higher wages. It represents the extent to which the Chancellor has yielded to trade union pressure on this matter.

There has been no corresponding concession to the profit-earning section of industry. "Wage, salary and profit restraint" continues to be the policy, though Sir Stafford has admitted that profits and excess profits taxes brought in a surplus of £57 millions over the 1949 Budget estimate, and though he has acknowledged, moreover, that some three-quarters of gross profits of companies are being utilised for essential economic purposes "which we should otherwise have to finance in some other way." He deals drastically and retrospectively with "tax-free payments to high executives of big companies"—payments that are hardly likely to have been made in any case in the chemical industry.

The Chancellor continues to turn a deaf ear to representations that purchase tax should be lowered or removed for virtual necessities like medicine, though here again he profited by a large excess over estimates—"reflecting increased sales." With those words the Minister perhaps gives the clue to his policy: he still regards the tax as an instrument for controlling expenditure on consumer goods rather than as a source of revenue. Despite that attitude, the levy of a "shilling on the bottle" scheme for National Health Service medicines (which would have much the same function) has been put on the shelf, though the power to operate it is retained. "Any expansion in one part of the [Health] Service must in future be made by economies or, if necessary, by contraction in others." Not this time, we trust, at the expense of pharmacists, or they may not be so patient as they have been over arrears of payments due to them. Since N.H.S. accounted for the largest increase of cost over estimate (£133 millions) in any field of Government expenditure, and there was a similar rise during the previous twelve months, the rigid "ceiling" to be imposed in the coming year presents a problem far from merely academic.



## New Dangerous Drugs

THE additions to the list of "drugs" to which Part III of the Dangerous Drugs Act, 1920, applies, are the first fruits of the 1948 Protocol, bringing synthetic narcotics under international control. They belong to two types, of which amidone and pethidine were the prototypes. At first sight the statutory order (p. 504) appears a formidable document, with its nomenclature based upon chemical constitution and presumably "approved" names. The Dangerous Drugs (Application) Orders (No. 2018 of 1946 and No. 2047 of 1947) anticipated the application of the Protocol in Great Britain so far as they affect amidone and pethidine, respectively. The experience gained from operating the orders will simplify the task of applying the D.D. provisions to their relatively unknown analogues.

Pethidine, which attained B.P. status in 1948, is finding favour as a pain-reliever in place of morphine. The structural analyses on p. 505 shows that four of the new Dangerous Drugs belong to the pethidine group.

Amidone, which has "anti-tussive" properties comparable with diamorphine and Dicodeid, is extensively used in the United States to fill a gap made by the twenty-five-year-old ban on heroin. Again, variation in constitution has added four new amidone-type narcotics, and from a chemotherapy standpoint the effect of change from ketone to alcohol or replacement of key-point (-4:4-) positions with different radicles should be illuminating. In this connection it is interesting to observe that phenadoxone (removed from Sch. 4 to D.D.A.) approaches pethidine as a potent pain-reliever, the "morpholino" group forming a bridge between the analgesic activities of the two types. The removal by the Order of one "form" of amidone to replace it by another is somewhat confusing until it is realised that this was necessary in order to renumber the molecule.

It is unlikely that the new narcotics, other than those already in this country, will be available for medicinal purposes, at any rate, in the near future. From a control standpoint there are consequential effects which, apart from changes in the

D.D. registers, include additions to the Poisons List and to the First Schedule to the Poisons Rules before the date of operation on May 1. Presumably the D.D. name will also become "approved names" for Poison Rule purposes, and it is to be hoped that the licensing for manufacture or import will obviate the necessity of alternative "trade" names. It is evident that in future, control of synthetic narcotics is to be enforced internationally before there have an opportunity of becoming a public danger.

## United States Chemical Imports

IN 1949, United States imports of chemicals and allied products fell to their lowest post-war level. In value they were about \$230,366,000 in 1949, against \$276,377,000 in 1948 and the 1947 all time record of \$323,259,000. The fall has occurred during a period when imports of other commodities have been increasing. In a report by Koster and Evans in the March 13 issue of "Foreign Commerce Weekly" (the journal of the U.S. Department of Commerce and the Office of International Trade), the decline is regarded as evidence of the increasing degree of independence the domestic industry has acquired in the period from 1914 to the present time.

Some effort is now being made in America, however, to reverse the downward trend in chemical imports. There is a growing appreciation of the difficulties facing the foreign exporter who desires to increase his sales of chemicals in the United States. The effect of high U.S. tariffs and customs regulations, which frequently raise the costs of imported chemicals above competitive levels, is recognised by the authors of the Report, but they think that the factor "is often greatly exaggerated." Many would not agree.

Of more importance is the habit of self-sufficiency developed during two world wars, and the inclination to continue buying American-made products. Continuity of supplies is essential to certain sections of the chemical industry, and many American manufacturers are not prepared to tie up capital in maintaining large stocks on hand of materials of foreign make.

When domestic producers are able to deliver day-to-day supplies. Moreover, transport costs to interior markets often prevent the foreign producer from competing with American makers. Difficulty has been experienced in finding out what products (particularly new items) foreign makers have to offer or could make; or which the U.S. would buy if available.

The most important factor, however, has been the ability of the large U.S. home market to support "large-scale, low-cost operations" for a wide range of chemicals. The foreign producer, not having this advantage, cannot compete.

The recent offer made by Imperial Chemical Industries, Ltd. (see *C. & D.*, March 11, p. 294) to acquire a controlling interest in the chemical manufacturing concern of Arnold Hoffman & Co., Inc., affords an example of the efforts now being made by British chemical manufacturers to enter the American market on an increasing scale. Since the devaluation of the £ sterling, prices of many British chemical products have become competitive with those of American manufacturers. According to the Report on the Chemical Industry, 1949, published recently by the Association of British Chemical Manufacturers, six British companies are operating a total of seven associate companies or subsidiaries in the United States—all engaged in the manufacture of chemicals. The formation of four more companies is contemplated. The parent concerns have agreements under which patents or processes are available to the American companies in return for royalties or fees. Apart from the manufacturing companies there are a number of distributing subsidiaries.

## Causes of Dental Caries

THE causes and prevention of dental caries are a scarcely opened chapter in human knowledge, and recent suggestions by American workers that a high production of ammonia compounds in the mouth might result in the freedom from caries which a few people enjoy have consequently aroused wide interest. Other evidence, admittedly rather equivocal, has been adduced to suggest that the rate of

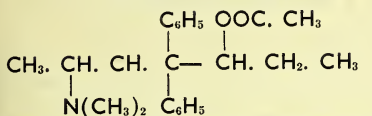
caries formation falls after the use of a tooth-powder containing dibasic ammonium phosphate and urea. Such results merited further investigation, and this has been carried out by Jenkins, Wright and Miller, at King's College, Newcastle-on-Tyne ("Nature," 1950, **165**, 606-07). These workers show that the inhibition of lactate production by *Lactobacillus acidophilus* in a mixture of saliva and glucose is not the prerogative of the ammonium ion alone. Alkaline sodium salts, for example, give rise to a similar inhibition. The criterion, they suggest, is the  $pH$  value of the saliva/glucose mixture, since inhibition occurs if that value exceeds 7.8. They consider that the active ingredient in the recommended powder is the urea, the ammonium phosphate having too low a  $pH$  value to be effective. The high concentration of urea to be found in commercial dentifrices inhibits, they suggest, both urease and the oral acid-forming mechanism, while the dibasic ammonium phosphate acts as a buffer and additional safeguard against urea breakdown. While agreeing that urea mixtures would reduce acid production and maintain a high  $pH$  in the mouth for a time, Jenkins and his colleague do not believe that the ammonium salts play the part claimed by their opposite numbers in America.

Simultaneous, but independent, experiments into the formation of caries-like lesions in the molar teeth of hamsters fed on sugar-rich diets has been undertaken by Dr. J. D. King, of the Medical Research Council's Dental Research Unit ("British Medical Journal," 1950, p. 876). The results may prove to have a bearing on human dental disease. In contrast to the findings of other workers, King's observations indicated that the lesions—calculus-induced—arose in the cementum of the tooth root, and progressed through the dentine to the pulp. The root cavities extended later, causing disintegration of the coronal dentine and enamel and presented the appearance of coronal caries in man. King tentatively suggests that certain cavities assumed to be carious in man may have arisen from similar parodontal disease. Further experiments with animals may give fruitful results.





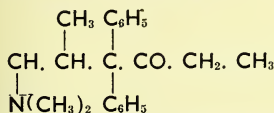
METHADYL ACETATE



6-dimethylamino-4:4-diphenyl-3-heptyl acetate

Isomidone, as its name indicates, is an isomer of amidone, being a derivative of ethylhexane instead of the straight-chain pentane.

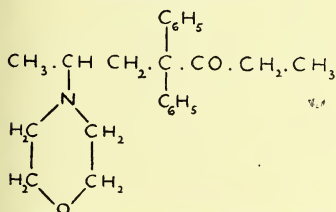
ISOAMIDONE



6-dimethylamino-4:4-diphenyl-5-methyl-hexan-3-one

Finally phenadoxone, better known by the trade name Heptalgin, is seen to have "morpholino" radicle in place of the dimethylamino" of amidone:—

PHENADOXONE

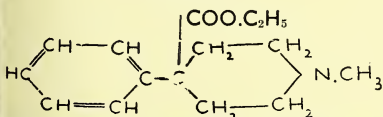


6-morpholino-4:4-diphenylheptan-3-one

The Pethidine Group

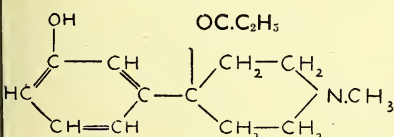
The nomenclature of the additions in the "pethidine group" follows the B.P. designation of that Dangerous Drug:—

PETHIDINE



Ethyl-4-phenyl-1-methylpiperidine-4-carboxylate

KETOBEMITONE



4-propionyl-4-m-hydroxyphenyl-1-methylpiperidine.

Hydroxypethidine (Ethyl-4-m-hydroxyphenyl-1-methylpiperidine-4-carboxylate) is so called on account of the substitution of .OH for .H in the *m*-position, converting the "phenyl" radicle of pethidine into the "m-hydroxyphenyl" of hydroxypethidine.

Alphaprodine differs from pethidine in two respects: (i) A second methyl is introduced into the piperidine portion; and (ii) a straight-chain  $\alpha$ -propionoxy radicle replaces ethylcarboxylate. Betaprodine is isomeric with alphaprodine but has a branched (-O.CH(CH<sub>3</sub>)<sub>2</sub>)- $\beta$ -grouping instead of the straight -O.CH<sub>2</sub>.CH<sub>2</sub>.CH<sub>3</sub>.

Ketobemidone differs from pethidine in being an *m*-hydroxyphenyl analgesic.

Phenodoxone possesses the molecular configuration of amidone with "morpholino" in the 6-position in place of dimethylamino.

## ANALYSTS' REPORTS

**Kent.** — Samples examined by the county analyst during 1949 (and submitted by sampling officers) totalled 2,688, of which 187 were of drugs. One sample of tincture of iodine was mentioned as being slightly deficient in both iodine and potassium iodide.

**Birmingham.**—The Birmingham city analyst, in his report for the third quarter of 1949, states that, of eighty-eight samples taken, eleven proved incorrect. Two samples of Parrish's chemical food contained excess of, and a third was deficient in, ferrous phosphate. Other incorrect samples were almond oil (contained water); boric acid (contained dust and grit); cold and influenza mixture, iodised throat pastilles and tablets (false labels); Seidlitz powders (one contained sodium sulphate as impurity, both packets of another sample were damp); sodium citrate tablets (did not comply to B.P. specification for uniformity of weight). — In the fourth quarter, 116 samples were taken of which fifteen were found incorrect. Among these were the following:—A tin of kaolin poultice contained the main ingredients in the wrong proportion, a sample procured as ammoniated tincture of quinine was found to be sal volatile and 29 per cent. deficient in free ammonia. The annual report for 1948, issued recently, shows that of 50.2 samples of drugs taken for testing, thirty-nine were incorrect. Cautions were issued in twenty-seven cases but there were no prosecutions.

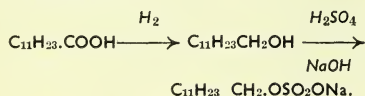
## DEVELOPMENT OF DETERGENTS

(Concluded from THE CHEMIST AND DRUGGIST, April 15, p. 472)

WHEN long-chain alcohols became available in quantity by the catalytic reduction of fatty acids, a whole group of detergents in this class became available. Their preparation is a direct esterification with sulphuric acid followed by neutralisation.

### Alkyl Sulphates

The alcohols so produced are usually oleyl stearyl, mixed alcohols from the fatty acids derived from coconut oil, or purified fractions of these mainly lauryl or myricyl alcohols, for example, sodium lauryl sulphate:—



Cetyl alcohol which can be obtained from sperm oil gives another compound with good wetting, emulsifying and detergent properties — sodium cetyl sulphate:  $\text{C}_{16}\text{H}_{33}\text{OSO}_2\text{ONa}$ .

Compounds of this type are closely related to soap, having hydrocarbon chains varying in length from  $\text{C}_8$ – $\text{C}_{18}$ . The triethanolamine salt has been marketed as a commercial shampoo. This was so efficient as a detergent that it removed not only the dirt from the hair but also much of the natural oil, so that the product had to be improved by making it less efficient as a detergent. A later development of this type of anionic detergent was the production of sulphated secondary alcohols from petroleum. As a rule these are soluble in water of any degree of hardness, and are being widely used in industry.

Amidation has been mentioned as a means of blocking the carboxyl group to an amide giving a fatty amide. Water-attracting groups are added if the compound is to be surface active in aqueous solution.

A suitable method is by adding an ethylene sulphonic acid group to the amide. One technique is the condensation of oleyl chloride with aminosulphonic acids.

Esterification has been used for blocking in such a series of agents as the diesters of sulpho-succinic acid, with esterifying groups from butyl to octyl, e.g., sodium dioctyl sulpho succinate. These compounds are useful mainly as highly selective wetting agents.

The alkyl aryl sulphonates (derived

mainly from petroleum) as a rule possess good detergent and foaming properties and are resistant to hard water and acid. Examples are cetyl benzene sulphonate:—



and dodecyl benzene sulphonate:—

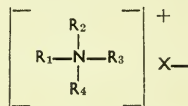


### Cationic Group

In the cationic class the hydrophobic group forms part of the cation when the compound is dissolved in water, as, for example, in the amines and quaternary ammonium compounds. These compounds have been called invert soaps since they differ from the ordinary soaps in the sign of the charge carried by the long chain ion. The development of the cationic detergents, particularly the quaternary ammonium compounds ("quats"), has paralleled that of the anionic group, but there has been a marked difference in the technical uses of the two series. For example, the "quats" containing a primary normal aliphatic chain in the range of twelve to eighteen carbon atoms are potent bactericides. The quaternary ammonium salt built around a nitrogen atom which is polyvalent, four of the valencies being attached directly to adjacent carbon atoms of organic radicals.

The cationic portion may vary considerably, as illustrated by the following types

1. *Non Cyclic Type*:—The general formula may be represented as:

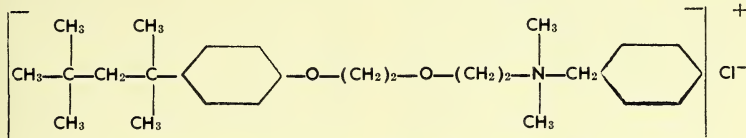


$\text{R}_1$ ,  $\text{R}_2$ ,  $\text{R}_3$  and  $\text{R}_4$  represent organic radicals or chains, and  $\text{X}$  the anion, usually a halide.

In the simplest type,  $\text{R}_1$  is a long aliphatic chain, while  $\text{R}_2$ ,  $\text{R}_3$  and  $\text{R}_4$  are methyl, ethyl or other short chain groups. For example, cetyltrimethylammonium bromide, or cetrimide, B.P.C. Both  $\text{R}_1$  and  $\text{R}_3$  can be long, aliphatic chains, giving dialkyl dimethyl ammonium compounds. Another variation is where  $\text{R}_2$  and  $\text{R}_4$  are methyl groups and  $\text{R}_3$  is a benzyl group giving alkyl dimethylbenzylammonium

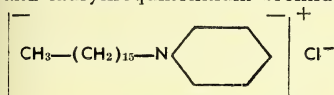
compounds, e.g., cetyltrimethylbenzylammonium chloride.

2. In a second group the long alkyl group contains unsaturated linkages or in others an aromatic ring. For example, diobutylphenoxy-ethoxyethyl-dimethylbenzyl ammonium chloride.



di-isobutyl-phenoxy-ethoxyethyl-dimethylbenzyl ammonium chloride

3. *Cyclic Type*—where three of the nitrogen valency bonds form part of a cyclic compound, e.g., cetyl pyridinium chloride and laurylisoquinolinium bromide.



Cetyl pyridinium chloride

A more recent development has been the introduction of sulphonamide groupings into the quaternary ammonium compounds. Barry and Peutzer prepared these compounds, incorporating the sulphathiazole, sulphadiazine, and sulphamerazine into the anion of cetyltrimethylammonium, cetyl pyridium and lauryl pyridinium. In 1948, Laurence and colleagues synthesised "quats" in which the sulphonamide was part of the cation. The antibacterial activity of these compounds is due to the quaternary ammonium component and not to the sulphonamide.

Detergents may be used as germicides or as solubilising, emulsifying or carrying media for other germicidal compounds. As a carrying medium the detergent may be inert or may act as a synergist for the active ingredient, increasing its germ killing activity. Various micro-organisms vary in resistance to the surface active agents. Furthermore, the established methods of testing non-surface active germicides do not always give accurate results when applied to the surface active compounds. For this reason the broad claims of the germicidal activity made for some of these compounds must be carefully checked. The most potentially bactericidal detergents are the cationic, more particularly the quaternary ammonium compounds. Their usefulness was first pointed out by Domagk in 1925. The most widely accepted include the alkyl pyridinium halides and the

alkyltrimethylammonium halides, the cetyl radical giving optimum results. Most of the "quats" marketed as germicides are relatively free of colour, odourless, tasteless in the dilutions normally employed. They are soluble in water and organic solvents and, as a rule, are relatively non-

corrosive. They are usually active in rather high dilution, exhibiting a high antibacterial power against both Gram-positive and Gram-negative organisms. Laboratory results have shown that one of them (cetyltrimethyl bromide) in 0.03 per cent. concentration is sufficient to kill rapidly virulent strains of *Staphylococcus aureus* and *Streptococcus pyogenes* in the absence of organic matter such as blood or pus. The "quats" are considerably more active in neutral or alkaline solution than in acid solution. They do not interfere with the healing processes, nor cause irritation. Occasionally, sensitivity has been reported. In the medical field the main use of these compounds has been the sterilisation of surgeons' hands in gloveless surgery and in obstetrics.

Further investigation with these compounds as preservatives in pharmaceutical preparations is merited.

### Use in Cosmetics

Non-emulsified lotions often contain detergents such as sodium lauryl sulphate or triethanolamine to facilitate spreading on the skin, while lotions containing solid materials in suspension such as calamine or sulphur often contain a detergent to help in maintaining the suspension. Synthetic detergents are widely used in shampoos. Synthetic detergents are also used in bubble or foam bath preparations, in many tooth-pastes as detergents and foaming agents, and have the advantage over soap of being useful in a neutral or acid pH. They have also been added to soap to improve its efficiency. Many of the common detergents are unsuitable from the practical point of view for forming into bars. In a recent British bar detergent, however, prepared from an alkyl sulphate, many of the difficulties seem to have been overcome and this has been marketed as a household cleaner. Syn-



thetic detergents are particularly useful for cleaning floors, walls, fittings, benches, dirty apparatus, bottles, and sinks in any laboratory or pharmacy.

### Discussion

In the discussion which followed the lecture PROFESSOR J. P. TODD asked whether the lecturer had any theories concerning the correlation between the detergent properties of the saponins and those of the modern synthetic detergents. MR. HARPER replied that the saponins had a system of rings in their structure which one would expect to be a hydrophobic group. The question of detergency involved much more than a balance of hydrophobic and polar groups. Among the explanations of how detergents worked were the loosening up of the material of the fabric and the subsequent removal of dirt by micelle formation, by emulsification, by foam formation, or by dispersion throughout the liquid. The saponins might be suitable as foam-

ing agents but they would not necessarily be good as detergents.

DR. MACMORRAN asked if there was anything in the difference between the animal and vegetable fibre which made detergent selectively active. MR. HARPER said that had been suggested that foaming played an important part in the success of detergents, that the foam formed a cushion around the fabric and prevented it from being broken up. Replying to PROFESSOR DRYERRE, MR. HARPER said that the double bond carbon was usually considered as a solubilising group. An acid with a double bond in a 9-10 position gave a soap which was a good detergent. In the best detergents the hydrophilic group occurred at the end of the hydrophobic group. DR. McCALL expressed appreciation of the lecturer's address, and on the motion of MR. A. B. GILMOUR, a vote of thanks was awarded to Mr. Harper. PROFESSOR DRYERRE proposed a vote of thanks to the chairman.

## A STREPTOMYCIN OINTMENT

MR. NORMAN FEARON, M.P.S., sends us the following note on a streptomycin ointment that has been formulated by James Hart (Chemists), Ltd., Bolton, Lancs, of which he is a director. Although streptomycin as a local application is at present in an exploratory stage, so far as its therapeutic use is concerned, there have already been some useful successes with it, particularly in the treatment of chronic ulcer. An ointment of 0.5 gm. (or even 1 gm.) per oz. (i.e., 30,000 units per gm., approx.) is applied morning and night aseptically after "scrubbing up." After 1-2 oz. has been applied, the ointment is reduced in strength to 0.1 gm. (or 0.5 gm.) per oz., and the treatment completed with a local application of, say, compound paint of crystal violet. Frequent observation is important, since streptomycin is liable to cause local reaction and the infecting organisms may rapidly develop a permanent streptomycin resistance. Hence the stronger ointments to begin with. Treatment may be supplemented by antihistamine therapy (say the oral use of a tablet of Phenergan (0.01 gm.) morning and night, with food). A 1 per cent. lotion of streptomycin, prepared aseptically, has also been prescribed, followed by ointment. For the ointment a base of paraffin molle (90 per cent.) with liquid paraffin (10 per cent.) and 500 to 1,000 units of streptomycin, is in use. It may prove inadequate in strength, "tacky" and

not easily spread, with antibacterial activity of the streptomycin "tied down" by the wrong pH, giving a five- to ten-fold loss in streptomycin activity. Streptomycin being much more stable than penicillin in an aqueous base, and a proper fixed pH of such a base being easily attained, experiments were made to formulate streptomycin ointment with a hydrophilic base, to give the highest activity, good stability, elegant appearance and consistent suitability for spreading. The results showed the following method to be successful:—

A pure white sterile base, with pH adjusted to give maximum activity to the finished ointment is prepared. While it is still warm, streptomycin calcium chloride is added aseptically to each 1 oz. (437 gr.), after dissolving the streptomycin in the correct small quantity of aqueous sterile preservative to give gr. 480. After stirring and cooling, the pH of the product is tested. The ointment is labelled: "Keep in cool place, use within fifty days." Three strengths have been prescribed: (a) 0.1 gm. streptomycin (3,000 units per gm., approx.) in 1 oz. (480 gr.); (b) 0.5 gm. streptomycin (15,000 units per gm., approx.) per oz. and (c) 1.0 gm. streptomycin (30,000 units per gm., approx.) per oz.

**Danish Pharmacopœia.**—The Danish Pharmacopœia, 1948, came into force on April 1.

## MARKETING IN U.S.A.

R. C. H. MASSINGHAM (a director, H. W. Carter & Co., Ltd., Coleford, Glos), sends the following impressions of the United States as a market for British goods:—

Despite the fact that the United States now acquiring a history and tradition of its own, it is still the "New World." It is refreshing to meet and mix with a people free from restrictions and inhibitions, and having respect and admiration for the man who gets on by his own hard work. Whilst 40 per cent. of the wealthy people in the States live in the eastern part, New York must not be taken as being typical of the country as a whole. Many manufacturers are finding that an English product will sell in one part of the States and not in another, and that the market in Chicago is very different from that in New Orleans or San Francisco. To have tried and failed in New York, therefore, does not mean that there is no possibility of export to the States, or vice versa. I found everyone friendly and very helpful. If visitors can go over with introductions to executives, it is a short-cut way to being the right people.

I must pay tribute to our own Board of Trade, who—whilst not having the commercial background that will enable them necessarily to see clearly the virtues or otherwise of a proposition—are able to contribute quite a bit towards making one's journey smooth-running and efficient. Contacts given by the Board, like those from most other people, should be approached with an open, questioning, critical mind. The American appreciates questions about his own ability to do the job. An Englishman who asks tactful questions to ensure that his line is being handled by the right person is thought the more of in consequence. Because one has a good product and in all modesty ours is), one cannot assume that it will be sold. With money spent in advertising, and one's shout a little louder than the next man's, sales can almost be guaranteed, provided the price is not unreasonable. To many British manufacturers, however, that is not possible, and they have to go the hard way, breaking the ground a bit at a time.

Despite devaluation, English prices are still too high in some cases. The cost of handling and distribution demands a high mark-up, so that every shilling that can be saved in the f.o.b. price is important in marketing a product.

## NEW BOOKS

**The Scientist's Ready Reckoner.**—W. Roman, Ph.D., A.F.Inst.Pet. 9½ in. by 6¼ in. Pp. 142. 15s. Published at the Hague, Holland. Distributors in Britain, Wm. Dawson & Sons, Ltd., 102 Wigmore Street, London, W.1. The author, the chief analyst of Petrocarbon, Ltd., Manchester, has compiled logarithmic tables of factors used in quantitative analysis which he considers the most frequently used. The tables are intended to be helpful in answering questions such as "I have to make up sulphuric acid 95 per cent. by weight. What volumes of concentrated sulphuric acid and water shall I take?" They include international atomic weights for 1947 with their logarithms, high multiples of the weights of frequently used atoms and groups (e.g., C<sub>4</sub> to C<sub>50</sub> or (CH)<sub>4</sub> to (CH)<sub>22</sub>) with logarithms; weights, with their logarithms, of radicles and molecules; gravimetric factors, titrimetric equivalents with their logarithms, specific gravities, and temperature conversion tables. Four- and five-figure logarithm tables are included. The tables are clearly laid out and easily accessible.

**Manual of the International Statistical Classification of Diseases, Injuries, and Causes of Death**, (Volume 2, Alphabetical Index).—World Health Organisation, Geneva, Switzerland. 9½ in. x 6¼ in. Pp. 524. 30s. (volumes 1 and 2). In Britain, by arrangement with the Registrar General, H.M. Stationery Office, York House, Kingsway, London, W.C.2. The publication of the second volume completes the Manual (designed to aid a medical record librarian, for example, to assign the terms and disease names used by the attending physician, etc., to the proper category for statistical tabulations). The alphabetical index is arranged in three sections of which the first (pp. 1-460) covers the disease section of the Classification, the second (pp. 461-495) the external causes of injury, and the third (pp. 497-524) the causes of stillbirth. The classification embodied in the Manual represents the sixth revision of the former International List of Causes of Death amplified to provide a single list applicable to morbidity, as well as mortality, statistics. Work was begun on the classification in 1945, when a list was drawn up by experts in the nomenclature of diseases and causes of death from Canada, the United Kingdom and the United States of America.



## PROPRIETARY ARTICLES TRADE ASSOCIATION

At the quarterly meeting of the Council of the Proprietary Articles Trade Association held in London on April 13 THE PRESIDENT (Mr. E. C. Pearce) referred to the recent death of Mr. A. E. Richards who for some years had represented Butler & Crispe on the wholesale section of the Council. A resolution expressing the Council's sympathy to Mr. Richards' family and firm was passed in silence. THE PRESIDENT also referred to the death of Mr. F. G. Newman to whose memory a similar tribute was paid.

Mr. I. B. Hutcheson, who succeeded Mr. R. V. Smith as representative on the manufacturers' section of Icilma Co., Ltd., was welcomed. THE SECRETARY conveyed the regards of the treasurer (Mr. L. Barclay) and Mr. Marns, who were still absent through illness. The Council reciprocated the greetings.

### Resale Price Maintenance

The Council discussed the present position regarding resale price maintenance. THE PRESIDENT and SECRETARY reported on the interview which the deputation from the Fair Prices Defence Committee had had with the President of the Board of Trade on April 4. The report and recommendations of a subcommittee which considered price-maintenance, the wholesale distribution of P.A.T.A. goods and the rates of discount on certain classes of goods proffered for inclusion in the protected list, were approved. MR. H. H. MARSHALL, who represents the P.A.T.A. on the National Pharmaceutical Union Distress Fund for Proprietor Chemists Committee submitted a brief report on the Committee's work.

The Council discussed a communication submitted by a member of the manufacturers' section which suggested the Council should bring to the attention of chemists the dangers of their pursuing a "prescription only" policy where this was done at the expense of their counter trade. It was agreed that the matter came more within the sphere of the N.P.U.

The quarterly investigation report showed that traders appeared to have adjusted their buying arrangements to meet probable sales requirements, and the Association had not been troubled with requests to assist in the disposal of surplus stocks. During the quarter 420 investigation calls and 592 test purchases had been

made. Four applications for membership of the wholesale section were rejected.

### Guests at Luncheon

At the luncheon which preceded the meeting, the president welcomed as guests Mr. L. Long (president, Pharmaceutical Society of Victoria), Mr. W. Herman Ke (secretary, Federation of Grocers' Associations and Grocery Proprietary Articles Council) and Mr. H. Noble (secretary, National Pharmaceutical Union). Expressing pleasure at the presence of Mr. Long, THE PRESIDENT stated he understood that within the previous day or so Mr. Long had been re-elected to the presidency; he congratulated him on this honour. He asked him to convey to his colleagues in Melbourne the greetings of the P.A.T.A. Council. MR. LONG expressed his pleasure at meeting the elected representatives of pharmacy and of the manufacturing and wholesale trade. He was a member of the P.A.T.A. of Victoria and they might be surprised to learn that this Australian P.A.T.A. was nearly as old as the parent organisation, having been founded forty-five years ago. He would be pleased to give any help he could to those contemplating a visit to his country and thanked the president for, and reciprocated, the greetings which he had been asked to convey to his colleagues in Australia.

MR. KENT, thanking the Council for their invitation, emphasised the common purpose which his organisation and the P.A.T.A. had in preserving the collective price-maintenance system. MR. NOBLE emphasised the solid backing which the N.P.U. Executive were giving to the P.A.T.A. and the Defence Committee. They were adamant that there should be no compromise on any aspect of the collective system of price-maintenance as operated by the P.A.T.A.

### Annual Meeting

At the fifty-fourth annual meeting, which was held on the same day, THE PRESIDENT, in moving the adoption of the annual report, said it was gratifying to note that 11,000 chemists were members of the retail section. Mr. Pearce reviewed the position arising from the Lloyd Jacob report and spoke of the steps taken by the P.A.T.A. and Fair Prices Defence Committee to make the facts known. He referred to the services rendered by the sec-

tary (Mr. Chapman) as chairman of that committee. Though the financial statement showed an excess of expenditure over income, that need not be a cause of perturbation. Manufacturers and retailers had accepted a moderate increase in their subscription rates and that would be reflected in the next statement. It was important that every member should appreciate the importance of paying his subscription promptly. MR. J. E. GOODALL, seconding the motion, recalled his own early experience of the effects of price-cutting and pictured what it would mean to chemists should it return. MESSRS.

J. SMITH, H. G. MIDDLETON and E. JONES supported the adoption of the report. At the president's request, THE SECRETARY also spoke on the price-maintenance position and the activities of the Defence Committee. The report and statement were unanimously adopted.

Replying to the vote of thanks to the secretary and staff moved by the president, MR. CHAPMAN said that they had all had busy and occasionally harrassing times. The meeting terminated with a vote of thanks to the president, proposed by COLONEL WATSON and accorded with acclamation.

#### Additions to Protected List (Part 1).

*Medo-Chemicals, Ltd.*, Barbasprin, 50's, 8s. doz., 6s.; 250's, 216s. doz., 27s. (exempt from tax). Carbellon, 50's, 18s. doz., tax 33½ per cent., inclusive retail price 8s. 9d.; dispensing packs, 250's, 80s. doz., 10s.; 500's, 150s. doz., 18s. 9d.; 1,000's, 45s. each, 36s. (all exempt). Dexamed, 5's, 16s. doz., 2s.; 100's, 48s. doz., 6s.; 50's, 108s. doz., 13s. 6d.; 500's, 204s. doz., 25s. 6d.; 1,000's, 30s. each, 45s. (all exempt). Fenobelladine, 50's, 18s. doz., 8s. 3d.; 100's, 28s. doz., 3s. 6d.; 250's, 10s. doz., 7s. 6d., 500's, 114s. doz., 4s. 3d.; 1,000's, 216s. doz., 27s. (all exempt). Hormofemin compound, 50's, 40s. doz., 5s.; 100's, 76s. doz., 9s. 6d.; 250's, 68s. doz., 21s.; 500's, 312s. doz., 39s.; 1,000's, 50s. each, 75s. (all exempt). Hormofemin cream, 1-oz., 40s. doz., 5s.; 8-oz., 2s. each, 33s. (both exempt). Orapenicil (20,000 units) 25's, 66s. doz., 8s. 3d.; (50,000) 10's, 64s. doz., 8s.; (100,000) 10's, 12s. doz., 14s.; (200,000) 10's, 144s. doz., 8s. (all exempt). Pectomed, 4-oz., 18s. doz., tax 33½ per cent. i.r.p. 2s. 9d. (dispensing), 3 lb., 84s. doz., 10s. 6d.; 6 lb., 44s. doz., 18s. (both exempt). Potensan, 5's, 32s. doz., 4s.; 100's, 108s. doz., 3s. 6d.; 250's, 20s. each, 30s. (all ex-

empt). Sulphapenicil, ½-oz., 18s. doz., 2s. 3d.; 1-oz., 28s. doz., 3s. 6d. (exempt). Thyropit, 100's, 68s. doz., 8s. 6d.; 250's, 160s. doz., 20s.; 500's, 25s. each, 37s. 6d.; 1,000's, 46s. 8d. each, 70s. (all exempt). Tonivitan A and D syrup, 4-oz., 18s. doz., tax 33½ per cent., i.r.p. 2s. 9d.; (dispensing), 40-oz., 144s. doz., 18s.; 80-oz., 20s. each, 30s. (both exempt). Tonivitan B syrup, 4-oz., 18s. doz., tax 33½ per cent., i.r.p. 2s. 9d.; (dispensing), 40-oz., 144s. doz., 18s.; 80-oz., 20s. each, 30s. (both exempt). Tonivitan capsules, 24's, 32s. doz., 4s.; 100's, 108s. doz., 13s. 6d.; 250's, 21s. 6d. each, 32s. 3d.; 500's, 41s. each, 61s. 6d.; 1,000's, 80s. each, 120s. (all exempt).

*The Mothersill Remedy Co., Ltd.*, Mothersill's tablets, 12s. doz., 1s. 6d. (exempt).

*Smith, Kline & French International Co.* (Agents: *Menley & James, Ltd.*), Dextro-drine tablets, 100's, 78s. 9d. doz., 8s. 9d.; 1,000's, 60s. each (exempt). 24's withdrawn.

#### Alterations to Protected List (Part 1).

*The British Drug Houses, Ltd.*, Cod-liver oil, B.D.H., 4-oz., 11s. doz., 1s. 6d.; 8-oz., 18s. doz., 2s. 6d. (exempt).

*W. B. Cartwright, Ltd.*, Pile ointment No. 33, 9s. doz., tax 33½ per cent., i.r.p. 1s. 6d.

*The Crookes Laboratories, Ltd.*, Collosol sulphur bath and lotion, 4-oz., 12s. doz., tax 33½ per cent., i.r.p. 1s. 10d.; 80-oz., 168s. doz., tax 33½ per cent., i.r.p. 25s. 8d.; during the summer months Lacto-calamine lotion will be supplied on bonus terms of 13 to the doz., for orders of 3 doz. bottles and 14 to the doz. on orders for 6 doz.

*Kress & Owen* (Agents: *Thos. Christy & Co., Ltd.*), Reduced prices in Southern Ireland: — Glyco Thymoline, 3-oz., 12s. 8d. doz., 1s. 7d.; 16-oz., 50s. 8d. doz., 6s. 4d. (6-oz., deleted).

#### Alterations to Protected List (Part 2).

*Allen & Hanburys, Ltd.*, teats, cleft-palate, 18s. 6d. doz., 2s.; food measure, Allenburys, glass, 18s. 6d. doz., 2s. (both exempt from tax).

*Northam Warren, Ltd.* (Agents: *J. G. Gamble & Co., Ltd.*), Cutex manicuring series, revised window display terms, 5 per cent. on £3 order.

*Solport Bros., Ltd.*, Portia baby balance, 34s. 6d. doz., tax 33½ per cent., i.r.p. 5s. 3d.; hammock, D.57, 31s. 6d. doz., tax 33½ per cent., i.r.p. 4s. 9d.; baby weighing outfit, 66s. doz., tax 33½ per cent., i.r.p. 10s.



## TRADE REPORT

Spot quotations for pharmaceutical chemicals represent the prices for wholesale quantities of standard quality. Prices of crude drugs and essential oils vary as to brand or grade.

### 28 Essex Street, WC.2, April 19

THE markets, generally, have shown few considerable appreciable developments since the holidays. Home and export trade in PHARMACEUTICAL and FINE CHEMICALS is up to the normal level for this time of the year. Demand for SODIUM *p*-AMINO SALICYLATE is brisk, with British manufacturers' prices unchanged. There are, however, reports of competition in this product from Continental producers. Price movements have included a small reduction in BROMIDES — the SODIUM and POTASSIUM SALTS are 1½d. per lb. down, and the AMMONIUM SALT, one penny. On the other hand, rising costs of production have been responsible for an advance in GUAIACOLS of one shilling per lb. ASPIRIN and SODIUM SALICYLATE have been increased by twopence per lb., and SALICYLIC ACID by three-halfpence per lb.

Although quiet conditions persist in CRUDE DRUGS markets, prices are, in the main, held at former levels, and in a few instances have increased. Higher prices are asked for Indian ACONITE and French GENTIAN while firmer conditions on the other side have caused CASCARA SAGRADA to be marked up on the spot. IPECACUANHA is slightly easier. Demand for GUMS has been on a moderate scale and prices are little changed, although in some quarters more is asked for the best-quality TRAGACANTH. WAXES are quiet and steady. Spot SHELLAC is lower in price. Zanzibar CLOVES is fractionally dearer and the market continues firm. Brazilian MENTHOL on spot is weak, and CAMPHOR is selling at lower prices. Trading in ESSENTIAL OILS continues quiet. Bourbon GERANIUM, VETIVER and YLANG OILS remain firm markets. With cheaper offers from China, ANISE is weak on the spot; there is little interest displayed in this oil.

### U.S. Drug and Chemical Report New York, April 14

QUOTATIONS for VITAMIN A are now at 24 cents per million U.S.P. units, or six cents lower than a few weeks ago. MENTHOL is also slightly cheaper, though conditions remain firm on spot; Chinese is reported available at \$10.25 on the inside, against \$10.30 previously, while a large order could probably be done at \$10.15 per lb. Although forward prices are much lower than those for spot material, there is little activity on the part of buyers who are waiting for a clearer picture of the new Brazilian crop. There is a good demand for CAMPHOR TABLETS. Shortages of supplies continue in quite a number of items on the BOTANICAL DRUG lists; common round RHUBARB is particularly hard

to find on the market while TOLU BALSAM at a higher price of \$2.65 per lb. was considered to be too cheap by some sellers and later it rose further to \$3. There has been some improvement in the foreign demand for SENEGA. Collection of domestic botanicals has started but there are as yet no indications of what results can be expected this season. Prices on drug items remain generally firm but in condiment lines there is a trend towards substantial price concessions because of the small demand. ESSENTIAL OILS are generally firm in price but the market has been rather quiet because of the holiday period. Demand for products which go into soft drinks has started to increase and a number of oils remain in tight supply, including GERANIUM, PEPPERMINT and PATCHOULI. The shortage of BENZOL is reflected in AROMATIC CHEMICALS.

### Pharmaceutical Chemicals

ACETANILIDE. — Crystals are quoted from 2s. 1½d. to 2s. 6½d. per lb., powder from 2s. 2½d. to 2s. 7½d. per lb.

ADRENALINE. — B.P. is quoted from 3s. 3s. 6d. per gm. for natural and 2s. 2s. 6d. for synthetic; racemic, 2s. per gm.

*p*-AMINOBENZOIC ACID. — Makers' prices are from 35s. to 38s. 6d. per lb. The SODIUM SALT is 37s. 6d. to 41s. per lb.

AMPHETAMINE. — Quotations for BASE and SULPHATE are from 115s. to 120s. per lb. *d*-AMPHETAMINE is 26s. per oz.

ASCORBIC ACID. — Steady. 1-kilo lots for the home trade are £16 10s. per kilo 500-gm., £17 per kilo.

ASPIRIN. — Prices advanced by twopence per lb. on April 18. Home-trade rates are now 3s. 7½d. per lb. in 10-cwt lots, and 3s. 9d. in 1-cwt lots. Scheduled rates per lb. for quantities of 28-lb and under 1 cwt are: 4s. 8d. (1-lb. containers); 4s. 7d. (2-lb.); 4s. 6½d. (4-lb.); 4s. 5½d. (7-lb.); 4s. 5d. (14-lb.); 4s. 4d. (28-lb.) net on month. Tablets have increased by twopence per 1,000. Rates per 1,000 for bulk supplies are: Under 5,000, 3s. 11d.; 5,000 and over, 3s. 9d.; 10,000, 3s. 8d.; 25,000, 3s. 6d.; 50,000, 3s. 5d.; 100,000, 3s. 4d.; 250,000, 3s. 3½d.; 500,000, 3s. 3d.; 1,000,000, 3s. 2d.

BARIUM SULPHATE (*x*-ray). — Prices are unchanged, 1 cwt., 1s. 3d. per lb. Scheduled rates per lb. (containers in brackets), for quantities between 28 lb. and 1 cwt. are as follows: 1s. 8d. (1-lb.); 1s. 7d. (2-lb.); 1s. 6½d. (4-lb.); 1s. 5½d. (7-lb.); 1s. 5d. (14-lb.); 1s. 4d. (28-lb.).

BETANAPHTHOL. — Steady. Makers quote prices from 2s. 9½d. to 3s. 1½d. for B.P. quality packed in 28-lb. packages.

**BORAX.**—Steady. Rates for B.P. quality 1-ton lots and upwards are as follows:—  
anular, £44; crystal, £46; powder, £47; extra-fine powder, £48 per ton; in 1-cwt. bags, carriage paid, Great Britain. Sur-  
charges for small quantities are as fol-  
lows:—Less than 1 ton but not less than  
1 cwt., 1s. per cwt.; 3 cwt., 2s.; 1 cwt.,  
to 5s.; less than 1 cwt., 5s. to 10s. per  
t. more than above rates.

**BORIC ACID.**—Steady. Rates for B.P.  
quality in 1-ton lots and upwards are as  
follows:—Granular, £75 10s.; crystal,  
£78 10s.; extra-fine powder,  
£94 10s.; small flake, £94 per ton; in  
1-cwt. bags, carriage paid, Great Britain.  
Surcharges for smaller quantities are as  
follows:—Less than 1 ton but not less  
than 5 cwt., 1s. per cwt.; 3 cwt., 2s.; 1  
t., 3s. to 5s.; less than 1 cwt., 5s. to 10s.  
per cwt. more than above reduced rates.

**POTASSIUM.**—Prices were reduced on  
April 17. Makers' rates per lb. in the  
United Kingdom and Eire are as fol-  
lows:—**POTASSIUM, B.P.** (crystal) and  
**DIUM, B.P.**: 5 cwt., 2s. 2½d.; 1 cwt.,  
3½d.; 28 lb., 2s. 10d.; 7 lb., 3s. 1½d.  
The potassium salt in powder is 1½d. per  
lb. more than the foregoing prices. **AM-**  
**MONIUM, B.P.C.** is 1½d. per lb. more than  
the potassium and sodium salts. Terms:  
cases net, 1-cwt. cases or kegs charged;  
1-lb. parcels, free; smaller quantities  
charged extra. Schedule quantities may  
be made of assorted salts down to 28 lb.

**BUTOBARBITONE.**—Makers' prices for  
all quantities are from 73s. per lb.

**BUTYL CHLORAL HYDRATE.**—Merchants  
are asking from 17s. 6d. to 20s. per lb., as  
quantity.

**CHLORAL HYDRATE.**—Current rates per  
lb. for the home trade are: 1-cwt. lots,  
17s. 6d.; 56-lb., 4s. 2d.; 28-lb., 4s. 4d.

**CITRATES.**—Prices are as follows:—  
**POTASSIUM, 5-cwt. lots, 2s. 10½d. per lb.;**  
1 cwt., 2s. 11½d.; scheduled prices for  
quantities of 28 lb. to 1 cwt. are (con-  
tainers in brackets): 3s. 9½d. (1-lb.);  
8d. (4-lb.); 3s. 7d. (7-lb.); 3s. 6½d.  
(14-lb.); 3s. 5½d. (28-lb.); **IRON AND AM-**  
**MONIUM CITRATE, B.P.**, 7d. per lb. more;  
**DIUM, B.P.**, 3d. less; powder, 1d. more.

**CITRIC ACID, B.P.**—Makers quote  
5½d. per lb., less 5 per cent. for 1-cwt.  
lots, delivered in the U.K.

**DEXTROSE.**—Steady. **MONOHYDRATE,**  
**P.** (in less than 5-cwt. lots), 28-lb. tins  
are quoted at 40s. per tin; 14-lb. tins,  
38s. 6d.; 7-lb. tins, 11s. 6d.; less 12½ per  
cent. to wholesalers, delivered. In quanti-  
ties of 5 cwt. and over, 28-lb. tins are 2s.,  
14-lb. tins, 1s. 6d., and 7-lb. tins, 1s., less  
the above prices. **ANHYDROUS, B.P.** (in  
less than 5-cwt. lots), 28-lb. tins, 42s. per  
tin; 14-lb. tins, 22s. 6d.; 7-lb. tins, 12s.;  
less 12½ per cent. to wholesalers, delivered.  
Reductions for quantities of 5-cwt. and over  
are the same as for the monohydrate.

**GUAIACOLS.**—Dearer. Liquid is quoted  
at from 15s. 6d. to 17s. 6d. per lb.; and  
crystal and carbonate, from 15s. to 16s.,  
according to quantity.

**MERCURY SALTS.**—Current prices per lb.  
from makers are as follows:—**AMMON-**  
**IATED, B.P.**, powder, 8s. 5d. (1 cwt.);  
lump, 8s. 3d. **IODIDE (MERCURIOS), B.P.C.**,  
21s. 3d. (28 lb.). **IODIDE (MERCURIC),**  
**B.P.**, 16s. 9d. (1 cwt.). **OXIDE (RED),**  
**B.P.C. and OXIDE (YELLOW), B.P.**, 8s. 10d.  
(1 cwt.). **PERCHLORIDE, B.P.**, lump, 7s. 5d.,  
and powder, 6s. 11d. (1 cwt.). **SUB-**  
**CHLORIDE, B.P.**, 8s. 4d. **SULPHATE (MER-**  
**CURIC), B.P.C.**, 14s. **SULPHIDE (MERCURIC),**  
16s. (28-lb.). **SULPHIDE (VERMILION),**  
9s. 3d. (1 cwt.). **MERCURY with CHALK,**  
**B.P.**, small lots, 5s. 2d.

**PANCREATIN.**—1-cwt. lots of B.P. are  
quoted at 9s. per lb., and 28-lb. at 10s.  
U.S.P., 1-cwt. lots, 11s. 6d. per lb.

**PHOSPHATES.**—Steady. Makers' rates  
per lb. are as follows:—**SODIUM, B.P.**, 1  
cwt., 6d.; 28 lb., 7½d. **SODIUM ACID, B.P.**,  
crystals, 1 cwt., 1s. 9d.; 28 lb., 2s.  
**POTASSIUM, granular, 4s. 2d.; powder,**  
4s. 5d. (for 7-lb. lots). **AMMONIUM, B.P.C.**,  
1 cwt., 2s. 6d.; 28 lb., 2s. 10d. **PHOSPHORIC**  
**ACID, B.P. (concentrated),** is from 1s. 2d.  
to 1s. 3½d. in carboys and from 1s. 5½d. to  
1s. 9½d. per lb. in winchesters.

**ROCHELLE SALT.**—Rates per cwt. for  
powder or granular salt are: 5 cwt., 130s.;  
1 cwt., 132s. 6d. Crystal is 2s. 6d. per  
cwt. more than the foregoing prices.  
**SEIDLITZ POWDER,** ordinary, is now  
103s. 9d. per cwt.; extra strong, 111s. 6d.  
per cwt.; double strength, 116s. per cwt.

**SACCHARIN.**—In lots of 1-lb. and over  
B.P. powder is quoted at 98s. 4d. per lb.;  
the **SODIUM SALT** is 79s. 4d. per lb. Prices  
include duty and carriage.

**SALICYLIC ACID.**—Prices have advanced  
by three-halfpence per lb. 1 cwt. is now  
2s. 4d. per lb.; scheduled rates per lb. for  
quantities of 28 lb. and under 1 cwt. (con-  
tainers in brackets) are: 3s. (1-lb.);  
2s. 11d. (2-lb.); 2s. 10½d. (4-lb.); 2s. 9½d.  
(7-lb.); 2s. 9d. (14-lb.); 2s. 8d. (28-lb.).

**SALOL, B.P.C.**—Current quotations for  
quantities of 28 lb. to 1 cwt. are from 9s.  
to 9s. 4d. per lb., according to pack. Prices  
for larger quantities are from 7s. 6d. to  
8s. per lb.

**SODIUM ALGINATE.**—Current rates per lb.  
are unchanged as follows: 7-lb. lots,  
7s. 3d.; 28-lb., 7s.; 1-cwt., 6s. 6d.

**SODIUM LAURYL SULPHATE.**—B.P. mater-  
ial is quoted at about 8s. 6d. to 9s. per  
lb. for small quantities. **EMULSIFYING**  
**WAX** is about 5s. 3d. to 5s. 6d. per lb.

**SODIUM SALICYLATE.**—Prices have ad-  
vanced by twopence per lb.; scheduled  
rates per lb. for quantities of 28 lb. and  
under 1 cwt. (containers in brackets) are:  
3s. 6d. (1-lb.); 3s. 5d. (2-lb.); 3s. 4½d.  
(4-lb.); 3s. 3½d. (7-lb.); 3s. 3d. (14-lb.);  
3s. 2d. (28-lb.).



## Crude Drugs

**ACONITE.**—Indian is offered at 285s. per cwt., on the spot; *napellus*, quoted at 3s. 6d. per lb., spot, duty paid.

**AGAR.**—Kobé No. 1 is offered at from 9s. 6d. to 10s. 6d. per lb., spot, duty paid.

**ALOE.**—Quiet. Cape is offered at 115s. per cwt., spot; for shipment, nominal. Curaçao is quoted at from 220s. per cwt., spot; forward, 215s., c.i.f.

**ARECA NUTS.**—Spot quotations are from 45s. to 60s. per cwt., as to quality.

**ASAFETIDA.**—A dull market. Persian block on spot is offering at prices from £14 10s. to £24 per cwt., as to grade.

**BALSAMS.**—*Canada* on the spot is quoted at 18s. 6d. per lb. *Pará Copaiba* is offered at 8s. per lb., duty paid, and 7s. 6d. in bond. *Peru* is offered at 7s. per lb., duty paid. *Tolu* is quoted at from 18s. 6d. to 18s. 9d. per lb., spot.

**BELLADONNA.**—Imported root is offered at from 3s. 9d. to 4s. 3d. per lb., as to test; leaves are from 4s. to 4s. 6d. per lb., spot, duty paid.

**CAMPHOR.**—Easier and quiet. Chinese tablets are quoted at from 5s. 3d. per lb. for  $\frac{1}{4}$ -oz. and from 5s. for  $\frac{1}{2}$ -oz.;  $2\frac{1}{2}$ -lb. slabs are from 5s. per lb.; all duty paid, spot London. Refined powder (B.P.) is offered at from 3s. 10 $\frac{1}{2}$ d. to 4s. 6d., duty paid; and B.B. grade, 3s. 6d. per lb., duty paid, spot.

**CASCARA SAGRADA.**—Quotations for 1949 peel are at 290s. per cwt., duty paid, spot.

**CASCARILLA.**—Steady. Quills on the spot are 1s. 3d. per lb.; siftings are 1s.

**CHILLIES.**—Sierre Leone now afloat is quoted at 300s. per cwt., landed terms; Mombasa, 300s. per cwt., spot, nominal.

**CLOVES.**—Firm. Zanzibar is offered at 1s. 9 $\frac{1}{2}$ d. per lb. on the spot; afloat, 1s. 7 $\frac{3}{4}$ d., c.i.f. Madagascar is quoted at 1s. 8 $\frac{1}{2}$ d. per lb., in bond.

**ERGOT.**—Portuguese old-crop is quoted at from 26s. to 27s. 6d. per lb., spot.

**GAMBOGE.**—Siam pipe is offered at £40 per cwt., duty paid; powder, 11s. per lb.

**GENTIAN.**—Dearer. French natural on the spot has been quoted at prices from 80s. to 92s. 6d., but little business reported at the higher level.

**GINGER.**—Firm. African new-crop is valued at 310s. per cwt.; afloat, 285s.; April-May, 290s., c.i.f. Jamaica No. 3 is valued at 360s. per cwt., spot; April-May, 350s., c.i.f.

**GUAIACUM RESIN.**—Steady. A parcel on the spot is offered at 3s. 6d. per lb.

**GUM ACACIA.**—Kordofan cleaned sorts on the spot, offered at 85s. per cwt., spot London or Liverpool: April-May shipment, 80s., c.i.f. Bleached gum, 145s., spot. Talha is 50s. per cwt., on spot; shipment, 47s. 6d., c.i.f.

**HONEY.**—Prices for manufacturing grades are as follows:—1-cwt., 90s.; cwt., 86s.; 10-cwt., 83s.; 1-ton, 80s. per cwt., carriage paid in U.K., packed 60-lb. drums. Refined honey: In 56-lb. tins, 100s.; 28-lb., 115s.; cases of four 7-lb. 130s. per cwt., carriage paid.

**HYDRASTIS.**—Spot quotations are from 40s. to 42s. 6d. per lb., duty paid.

**IPECACUANHA.**—Nicaraguan is offered 37s. per lb.; April-June shipment, 34s. c.i.f. Colombian is steady at 32s. per lb. spot, and 29s., c.i.f., for shipment.

**JALAP.**—Mexican root on the spot offering at from 3s. 3d. to 3s. 6d. per lb. according to test.

**KARAYA.**—Selected is offered at 29 per cwt., spot; No. 1, 255s.; No. 2, 215s. No. 3, 180s.

**KOLA NUTS.**—African quarters are from 4 $\frac{1}{2}$ d. to 5d. per lb. and halves at 4d., spot London.

**LANOLIN.**—B.P. anhydrous is £120 per ton; hydrous, £90. Superfine anhydrous is quoted at £126 per ton.

**LIQUORICE.**—Steady. Anatolian natural on the spot is quoted at from 52s. 54s. 6d. per cwt. Turkish black juice quoted at from 160s. to 230s., duty paid according to holder. Turkish stick is from 300s., duty paid. Italian stick is from 285s. to 475s. per cwt., duty paid, in druggists' grades.

**MACE.**—West Indian pale blade, No. 1 is quoted at 6s.; for shipment, 5s. 9d. c.i.f., quoted.

**MALT EXTRACT.**—B.P. quality is quoted at 86s. per cwt. in 1-cwt. or 56-lb. turnable drums; with COD-LIVER OIL (10 per cent. v/v.) the price is 99s. 6d. per cwt.; carriage paid.

**MASTIC.**—Supplies of tears are quoted at from 12s. 6d. to 13s. per lb., spot London.

**MENTHOL.**—In little demand, and the market is easier. Brazilian on the spot offered at from 81s. to 82s. per lb., duty paid; afloat, 77s. to 78s. per lb., c.i.f. Chinese is valued at 92s. per lb., duty paid; for shipment, 81s., c.i.f.

**MERCURY.**—Spot quotations are around £18 10s. per flask, ex warehouse.

**MYRRH.**—Aden sorts, spot, offered at £ per cwt.; siftings are at £6 10s. to £7.

**NUTMEGS.**—West Indian 80's quoted 2s. 10d., on spot; sound assorted, 2s. 1 spot. East Indian 80's offered at 2s. 10 per lb., c.i.f. Continent.

**NUX VOMICA.**—Quiet. Cochin is offered from 38s. to 40s. per cwt., spot; Canada, 35s. per cwt., spot.

**OLIBANUM.**—Steady. Good drop is quoted at from 220s. to 225s., and medium drop at 190s.; peas are 200s.; fair galings, 125s., siftings are dearer at 110 per cwt., spot.

RUSSIA.—Quiet. Chips on the spot are quoted at from 32s. to 35s. per cwt., c.i.f. GUILLALA.—Natural bark on the spot is 5s. per cwt.; to arrive, 140s., c.i.f.

GUINCE SEED. — Cape on the spot is quoted at about 2s. 6d. to 2s. 9d. per lb.

SEEDS.—ANISE continues quiet. Turkish 55s. per cwt., in bond, and 165s. per cwt., duty paid; Egyptian is 150s. per cwt., in bond; all spot London. CARAMEL.—Dutch is unchanged at 122s. 6d. per cwt., duty paid, spot London. CELERY.

FORE inquiry. Indian is 1s. 10d. per lb., spot London. French is now quoted at 4s. per cwt., duty paid, spot London. LAMBER. — Market remains firm. Pimento on spot is offered at 102s. 6d. per cwt., in bond, and 107s. 6d. per cwt., duty paid. It is reported that new-crop pimento will not be available for shipment until July. A small quantity of Argentine pimento is offered at 95s. per cwt., duty paid, spot London. CUMIN.—Morocco is offered at 15s. per cwt., in bond, and 175s. per cwt., duty paid, in London; old crop for shipment quoted at 155s. per cwt., c.i.f. London. DILL. — Indian is quiet and unchanged at 62s. 6d. per cwt., spot London. FENUGREEK.—Market remains firm. Indian is 55s. per cwt., spot London. FENUGREEK.—Changed, Morocco is 55s. per cwt., duty paid, in Liverpool, and 57s. 6d. per cwt., duty paid, in London. Indian is 62s. 6d. per cwt., spot London only.

GUINCE.—Spot quotations are at 10s. 9d. per lb.; forward quotations for old-crop at about the same value.

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## Essential and Expressed Oils

ALMOND. — English-expressed sweet oil (B.P.) is from 4s. 6d. per lb.; Spanish is quoted at from 3s. 3d. to 4s., as to grade. Bitter, s.a.p., on the spot, is from 24s. to 40s. per lb., as to grade.

ANISE.—A weak market. Spot quotations for Chinese star are from 8s. 9d. to 9s. per lb., in original drums; for May-June shipment, 7s., c.i.f.

BAY.—West Indian on spot is quoted at from 5s. 3d. to 7s. 6d. per lb.

BERGAMOT.—Supplies on the spot are quoted from 31s. to 34s. per lb.

CARDAMOMS.—English-distilled is offered at from 450s. per lb.; imported, from 330s. to 350s., duty paid.

CINNAMON.—B.P. oil on the spot is quoted at prices ranging from 50s. to 100s. per lb. Bark oil is offered at from 14s. to 20s. per oz. Seychelles leaf oil is from 8s. to 9s. per lb., spot.

CITRONELLA.—Ceylon is offered at from 7s. 6d. to 8s. per lb., spot; April-May shipment, 7s. 3d., c.i.f. Java is valued at 18s. 6d. per lb., spot; for shipment, 14s., c.i.f.

CLOVE.—Firm. English-distilled bud oil is offered at from 14s. 6d. to 15s. 6d. per lb., according to quantity; Zanzibar stem oil is quoted at 10s. per lb., spot.

EUCALYPTUS. — Firm. 70-75 per cent. (B.P.) is from 5s. 3d. to 5s. 9d. per lb., spot; 80-85 per cent., 5s. 6d. to 6s. per lb.

GERANIUM.—Bourbon is offered at from 120s. to 125s. per lb., spot; forward, 110s. to 115s. per lb., c.i.f. Algerian on spot is quoted at from 96s. to 100s. per lb.

LAVANDIN. — Dealers are asking from 12s. to 12s. 6d. per lb. for oil on the spot.

LAVENDER.—French, 38-40 per cent., on spot is offered at from 21s. to 24s. per lb.; 40-42 per cent., 22s. to 25s. Spanish spike is offered at 10s. to 10s. 6d. per lb., spot.

LEMON. — Sicilian hand-pressed, 4 per cent. citral, on the spot is quoted at 24s. per lb.; for shipment, 22s. 6d. to 23s. 6d., c.i.f. 3½ per cent. is offered at from 21s. 6d. to 22s. 6d. per lb., spot. Other grades (complying with B.P. standards) are offered at from 18s. per lb.

LEMONGRASS.—Spot quotations are from 14s. to 16s. 6d. per lb., as to quantity; drums, April-May shipment, from 13s. to 13s. 2d. per lb., c.i.f.

LIME.—West Indian on spot is quoted at from 50s. to 53s. 6d. per lb., for good-quality oil.

PEPPERMINT.—Chinese (*M. arvensis*) on the spot is offered at from 43s. to 44s. per lb.; afloat, 40s., c.i.f.; April-May, 38s. 6d., c.i.f., in drums. *Piperita* is offering at from 60s. to 65s. per lb., spot, as to holder and grade. English "Mitcham," 210s. per lb.



## COMING EVENTS

### Monday, April 24

ABERDARE AND MERTHYR BRANCH, PHARMACEUTICAL SOCIETY, Ferrari's Café, Aberdare, at 7.30 p.m. Address by Mr. F. Purse (head of Welsh Joint Pricing Bureau).

HENDON AND EDGWARE BRANCH, PHARMACEUTICAL SOCIETY, Hendon Hall Hotel, Ashley Lane, Hendon, at 9.15 p.m. Annual meeting.

MANCHESTER PHARMACEUTICAL ASSOCIATION, JUNIOR BRANCH, Council Chamber, Houldsworth Hall, at 7.30 p.m. Annual meeting and film show.

### Tuesday, April 25

CHICHESTER AND BOGNOR REGIS BRANCH, PHARMACEUTICAL SOCIETY, Polly Anne Café, High Street, Bognor Regis, at 7.15 p.m. Mr. A. L. Bacharach, M.A., F.R.I.C., on "The Production and Use of Laboratory Animals" (illustrated), and annual meeting.

DARTFORD BRANCH, PHARMACEUTICAL SOCIETY, Wellcome Club, High Street, Dartford, at 8 p.m. Annual meeting and film show, "Birth of a Drug" and "Industrial Dermatitis."

NOTTINGHAM BRANCH, PHARMACEUTICAL SOCIETY, Lecture theatre, Medico-Chirurgical Society, 64 St. James' Street, Nottingham, at 7.30 p.m. Mr. Granville Shaw (a member of Council), Mr. W. G. Hollis, and two students, on "Recent Changes in Pharmaceutical Education and Their Possible Effects on Pharmacy." Annual meeting.

SOUTH-EAST METROPOLITAN BRANCH, PHARMACEUTICAL SOCIETY AND SOUTH-EAST LONDON CHEMISTS' ASSOCIATION, Grove Tavern, 26 Camberwell Grove, London, S.E.5, at 7.30 p.m. Annual meetings.

### Wednesday, April 26

ABERDEEN AND NORTH-EASTERN SCOTTISH BRANCH, PHARMACEUTICAL SOCIETY, Caledonian Hotel, Aberdeen, at 3 p.m. Annual meeting. Mr. C. W. MacFarlane (chairman, Scottish department) on "Current Pharmaceutical Events."

GLASGOW AND SOUTH-WESTERN SCOTTISH BRANCH, PHARMACEUTICAL SOCIETY, 220 St. Vincent Street, Glasgow, at 7.30 p.m. Mr. H. Clement Shaw (president, Pharmaceutical Society), on "Matters of Current Pharmaceutical Importance."

SHEFFIELD BRANCH, PHARMACEUTICAL SOCIETY, Medical Library, Sheffield University, at 7.45 p.m. Dr. F. Wrigley on "Recent Advances in the Treatment of Rheumatic Diseases."

LONDON CHEMISTS' GOLFING SOCIETY, Fixture at Crews Hill Golf Club (Telephone: Enfield 0787).

### Thursday, April 27

BEDFORDSHIRE BRANCH, PHARMACEUTICAL SOCIETY, Chamber of Commerce Rooms, George Street West, Luton, at 7.30 p.m. Annual meeting.

HARROW BRANCH, PHARMACEUTICAL SOCIETY, Oak Hall, Baptist Road, Harrow, at 7.30 p.m. Messrs. H. W. Tomski on "America Bound" and R. Goode on "Egyptian Antiquities."

PLYMOUTH BRANCH, PHARMACEUTICAL SOCIETY, Main lecture hall, South Devon and East Cornwall Hospital, Plymouth, at 7.30 p.m. Annual meeting.

### Friday, April 28

EAST METROPOLITAN BRANCH, PHARMACEUTICAL SOCIETY, 17 Bloomsbury Square, London, W.C.1, at 8 p.m. Addresses by candidates for election to the Pharmaceutical Society's Council, 1950.

## TRADE MARKS

(From the "Trade Marks Journal," April 5)  
For disinfectants (5).—"KILLGERM" (w/ clenched fist); by the Killgerm Co., Ltd., (Cleheaton; 675,107.

For backache and kidney pills and medical ointments and liniments (5).—"MYRA"; by Hea Brothers & Sons, Ltd., Salford; 676,862.

For pharmaceutical preparations (5).—"BOOTS" by Boots Pure Drug Co., Ltd., Nottingham; 679,177. "RUTORBIN"; by E. R. Squibb & Sons New York; 684,296. "PARAIODE"; by Juli Boury, Paris; 684,945. "BRADORAL"; by Cil Ltd., Basle; 685,162. "ORAPENICAL," "SULPENICAL"; by Medo-Chemicals, Ltd., London; 685,472-73. "ACRESAC"; by Antigen Laboratories, Ltd., London, W.1; 685,677. "DISQUAINE"; by the Distillers Co. (Biochemical Ltd., Liverpool; 685,950. "BIPHAL"; by Per Hall, London, W.8; 686,151.

For rat poisons (5).—"RATOPAX—THE MIGHT OF SCIENCE" (with hand holding rat); Grant Laboratories, Ltd., Richmond; 683,442.

For insecticides and fungicides (5).—"VITAMAG"; by Vitax, Ltd., Ormskirk; 683,298. "KATAKILLA," "FERNIMINE"; by Plant Protection, Ltd., Yalding; 685,000-188.

For antibacterial preparations (5).—"SULMERIN"; by E. R. Squibb & Sons; 684,298.

For all goods (5).—"AFDIGYL"; by the Anglo-French Drug Co., Ltd., London, W.C.1; 685,966.

For photographic apparatus (9).—"TECHNOCOLOR"; by Technicolor Motion Picture Corporation, Hollywood; 681,473.

For non-medicated paper handkerchiefs, etc. (10).—"SNOWTEX"; by Bridgend Paper Mills, Ltd., London, E.1; 683,277.

## FIFTY YEARS AGO

### The Council Contest

(From the C. & D., April 21, 1900)

As mentioned last week, we have given each candidate the opportunity to state his view in our pages. Mr. Warren is the one member of the Council who has written freely for publication. His letter quoted below:—

We have, as individuals and as a Society to educate the public and to try and gain their attention and sympathy. Is it too much to expect that amongst our members there may be some with sufficient literary skill and knowledge of the subject to furnish some prominent review with articles on the position of pharmacy in England that would be of general interest? There are new developments in pharmacy coming on and a new Pharmacy Bill to be prepared. It will require all the constructive capacity of the Council to frame it, and the persistent loyal support of the trade to carry it out.



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### Parcel No. 2

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vitamin D, 3,000 units ; iron and ammonium citrate 13½  
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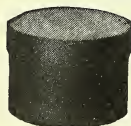
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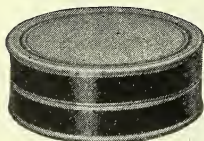
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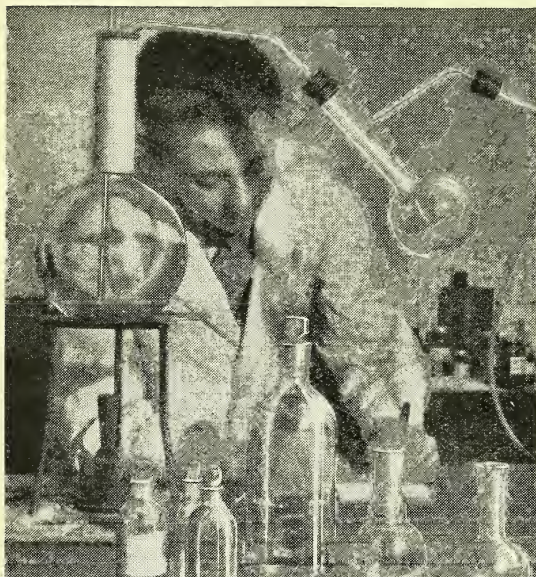
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*- in a tube*



*Retails 9<sup>d</sup> inc. tax*  
**35% DISCOUNT**

For

**SUNBURN  
CHAFING  
NAPKIN RASH**

AND

**SKIN IRRITATION**

*Easy to use  
Convenient to carry*

Packed in attractive display outers of  
3 dozen tubes. From your wholesaler or

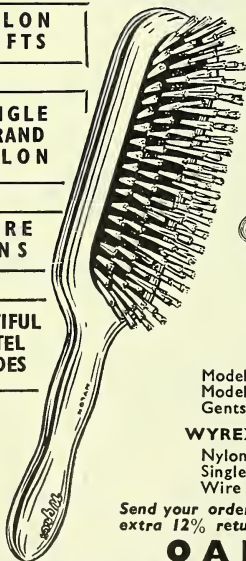
**DIRECT ORDERS—minimum 1 gross—extra 5% discount.**

**ALAN'S Calamine Skin Cream**  
CROWN CAPSULE CO. LTD.  
84-88 UPPER RICHMOND ROAD, LONDON, S.W.15

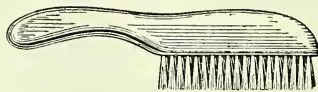


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**NYLON TUFTS****SINGLE STRAND NYLON****WIRE PINS****BEAUTIFUL PASTEL SHADES**

Introducing the New **WYREX**  
 "modern shape" and a  
**Big FREE BONUS OFFER**  
 of 2 WYREX DRESSING TABLE CLOTHES  
 BRUSHES. To sell at 1s. 10d. each



**MADE IN COLOURS  
 TO MATCH ALL  
 "WYREX"  
 HAIRBRUSHES**

Order an assorted or single dozen from the list of WYREX Hairbrushes for 2 free clothes brushes. Order half dozens for 1 free in your parcel.

	Cost plus tax	Retail incl. tax
Model C Nylon Tufts ... ..	38/6 per doz.	5/11 each
Model C Wire Pins ... ..	31/- " "	4/9 " "
Gents Military Nylon Tufts ... ..	45/- " "	6/11 " "

**WYREX Modern Shape—as illustrated**

Nylon Tufts ... ..	32/6 " "	4/11 " "
Single Strand Nylon ... ..	29/6 " "	4/6 " "
Wire Pins ... ..	25/- " "	3/9 " "

Send your order at once—to your wholesaler or write direct—and cash in on this extra 12% return to your usual profit

CLOSING DATE 31st MAY

**OAKFIELD & CO.**

WHIELDEN STREET . . . AMERSHAM . . . BUCKS

**Therapy  
with the**

**MALE HORMONE**



**ORAL** . . . tablets of Methyltestosterone B.P. of 5-10  
- 25 or 50 mg.

**INJECTION** . . . ampoules Testosterone Propionate B.P.  
5-10-25 or 50 mg. in 1 cc. & 100 mg. in 2 cc.

**IMPLANTATION** . . . fused pellets of 100 mg.  
Testosterone in sealed glass tubes.

**OINTMENT** . . . Testosterone Propionate B.P.  
2 gm. tubes 25 mg. per gm. 25 gm. tubes  
2 mg. per gm.

**SUPPOSITORIES** . . . Testosterone  
15 mg. in each.

Price List on Request



**ORGANON LABORATORIES LTD.**

BRETENHAM HOUSE, LONDON, W.C.2

TELEPHONES: TEMPLE BAR 6785/6/7 0251/2

TELEGRAMS: MENFORMON, RAND, LONDON



# EXPERIENCE

PHARMACISTS THE WORLD OVER RELY UPON  
THE YEARS OF EXPERIENCE THAT STANDS  
BEHIND THE 'COX' ORGANISATION

FINEST MATERIALS · MODERN PRODUCTION METHODS  
SPECIALISED SKILL · RIGID LABORATORY CONTROL  
*combined to produce*

## PILLS and TABLETS TO PERFECTION

ARTHUR H. COX & CO. LTD., BRIGHTON, 7

*Manufacturing Chemists since 1839*



*Sunny Days  
mean  
Hat Dye Sales*

Straw hats are fashionable again, but the sun of last year's Summer has faded most of them. More and more women are asking for Luton Straw Hat Dyes, so stock up now to meet this demand.

**Dull or Glossy Series**

Standard size 13/6 per doz. Retail 1/6 per bottle  
Small size 10/6 per doz. Retail 1/2 per bottle  
(P.A.T.A.)

Both less 5% for cash in 7 days

*Attractive Shade Cards and Show Material  
supplied on request*

## LUTON STRAW HAT DYES

**WHITAKER & CO. (KENDAL) LTD.**  
Dye and Chemical Manufacturers, Kendal

**PEBOC LTD**  
MANUFACTURERS OF  
**VITAMIN D3**

*Enquiries*

*to*

**SALES OFFICE,  
629, TOWER BUILDING,  
WATER STREET,  
LIVERPOOL 3.**

**LABORATORIES · GREENFORD · MIDOX**

# Pale faces at the counter



remind you of the need for these  
**B.D.H. Products**

**'LIVOGEN'** A natural restorative tonic containing the therapeutic principles of liver and yeast with added vitamin B<sub>1</sub> and nicotinic acid.

*4 fl. oz. and 16 fl. oz.*

**'VIBELAN'** Vitamin B Compound B.D.H. A general tonic in a convenient form for oral use in vitamin B deficiency conditions. Contains vitamins B<sub>1</sub> B<sub>2</sub> and nicotinamide.

*Bottles of 50 and 250 tablets*

**VITAMIN B<sub>1</sub> B.D.H.** For parenteral and oral use. Conforms to the specifications for Aneurine Hydrochloride B.P.

*SOLUTION: 5 mg. and 25 mg. per ml. in 1 ml. ampoules; 100 mg. in 2 ml. ampoules*

*TABLETS: 1, 3, 10, 25 and 50 mg. in bottles of 25, 100 and 500 tablets*

*A complete list of B.D.H. Vitamin Products will be forwarded to pharmacists on request.*

**THE BRITISH DRUG HOUSES LTD. LONDON N.1**



# Cooltan OPENS AN ADVERTISING Broadside!

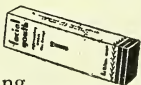


**SELL THESE OTHER WELL  
ADVERTISED Kathleen Court  
PRODUCTS**

'Hennafoam'—the wonder Soapless Shampoo that is increasing in favour at a great rate! Double pack retails at 6d.



'Facial Youth'—effective skin-reviving beauty cream appealing especially to the Chemists' best type of Customers. Retailing at 3/11d.



NOW—the biggest 'Cooltan' Advertising Campaign in history—using the **BIG GUNS** of LARGE-SCALE PUBLICITY! Extra space, extra newspapers and magazine more frequent insertions—it's going to be a **hug RECORD** year for 'Cooltan' sales. This amazing Sun-Tan cream—always the leader—is going to sweet past all previous Sales Records! More and more people will be asking insistently for 'Cooltan'—the greaseless product that assures a wonderful natural Tan in 2 hours... and also means—**NO BURN!** The only way to make sure you don't run out of stock *this* year is to order big and early. You'll be wise to order *three times the quantity* of 'Cooltan' you sold last year. Remember we have to supply the U.S.A. as well as the Home Market, so get your supplies in **NOW!**

**AND 'SWIFTAN' TOO!** Pre-war, we coloured 'Cooltan' and called it 'Swiftan.' Many people liked its **SWIFT-TAN-TINT**, so it is back again. Advertised to sell at 2/9.

## DISPLAY THIS SHOWCARD

Put this eye-catching Full-Colour Showcard where your customers can see it—then see how busy your Shop becomes!



**SHARE THIS RECORD SALES YEAR WITH US!**  
**ORDER TODAY—from recognised Wholesalers or Direct**  
**Special Terms for DIRECT Parcel lots**

# CARNEGIE

*Manufacturers of Fine Chemicals*

B . I . F  
May 8-19  
1 9 5 0



STAND  
No. B-3  
OLYMPIA

ALOIN	ESERINE & SALTS
AMINOPHYLLINE	HYOSCINE HYDROBROMIDE
ATROPINE & SALTS	IODIDES
BARBITURATES	LITHIUM SALTS
BISMUTH SALTS	PARA AMINOSALICYLATE SODIUM
BROMISOVALERYLUREA	PHENAZONE COMPOUNDS
BRUCINE & SALTS	PODOPHYLLIN RESIN EMODI
CAFFEINE & SALTS	SALICYLATES
CHLORAL HYDRATE	SANTONIN
CHRYSAROBIN	STILBOESTROL
CINCHONA FEBRIFUGE	STRYCHNINE & SALTS
CITRATES	THEOBROMINE & SALTS
EPHEDRINE & SALTS	THEOPHYLLINE & SALTS
	ETC., ETC.

**CARNEGIE CHEMICALS (WELWYN) LTD**

WELWYN GARDEN CITY : HERTFORDSHIRE : ENGLAND

TELEGRAMS: CARNECHEM, WELWYN GARDEN TELEPHONE: WELWYN GARDEN 506 (4 lines)

A 'CARNEGIES OF WELWYN' COMPANY

As you show  
you sell—

# Flexoplast

Regd BRAND

## FIRST-AID DRESSINGS

Display this attractive  
pack on your counter

Tins  $7\frac{1}{2}$ d. and  $1\frac{1}{3}$  each



Flexoplast Dressing is also available in the  
new hygienic cartons.

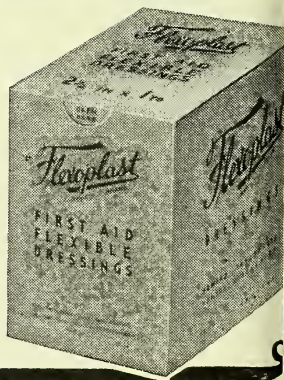
Size  $1\frac{1}{2}$ " x 1 yd. and  $2\frac{1}{2}$ " x 1 yd.

OBTAINABLE FROM YOUR USUAL WHOLESALE SUPPLIER

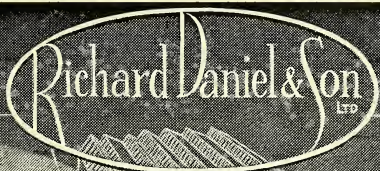
Manufactured by:

EDWARD TAYLOR LTD., MONTON, LANCASHIRE

Established over 100 years







PROPRIETARIES  
SUNDRIES DRUGS  
TABLETS & PILLS

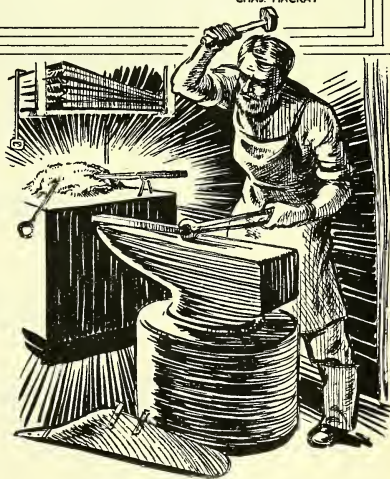
FOR  
CHEMISTS

*Manufacturing  
Chemists*

Head Office & Works Mansfield Road Derby Telephone 4266 (4 lines) Branch Warehouse Grosvenor St. Ashton-under-Lyne Telephone 2816 (2 lines)

*And he fashioned the first ploughshare*

CHAS. MACKAY



The power of the forge was as vital to the craftsman of yesterday as the power of good printing is to modern business today. Furthermore, sound design, be it in ploughshares or printing, reflects the skill and character of the man or organisation behind it.

Print is your ambassador-at-large and to achieve maximum effect it must be of the highest standard.

Consult us when next you are planning brochures, showcards, cartons, labels, etc. We shall be pleased to place our 70 years' experience at your service.

**THOMAS WAIDE & SONS LTD.**  
**KIRKSTALL HILL, LEEDS, 5**

*Print Specialists for over 70 years*



# News from Amami

GOOD NEWS from Amami! Announcing the repackaging of its two star-selling shampoos **Amami No. 1** and **Amami No. 5** . . . . plus the introduction of the new **Amami Soapless Powder Shampoo**! In your delivery this month you will find the new packs, colourful and modern, full of feminine appeal and with great display value. Tests are showing how quickly these new **Amami** packs catch the eye amid crowded displays. This is good news indeed—and there'll be more good news to come when **Amami's** forceful new shampoo advertising starts in May. The demand for this old established favourite in its new dress will be enormous.

Now is the time, therefore, to make counter and window displays of your present stock of **Amami** Shampoos. You will not only clear all your old packs but you will be laying the foundation for a vastly increased turnover when the new packs come into the Press and Magazines.

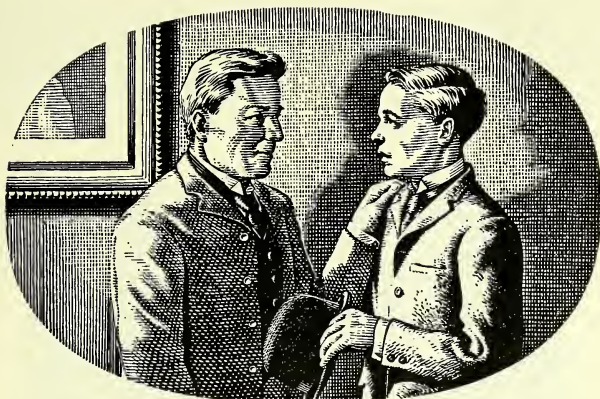
**DISPLAY** and sell out the **OLD**, be ready with stocks of the **NEW**!

## Amami No. 1 Amami No. 5 Amami Soapless

*Please send your enquiry to :*

**PRICHARD & CONSTANCE (Manufacturing) Ltd., North Circular Road, London, N.W.10**





*Young Man*  
*you have a great reputation*  
*to keep up*

It is difficult to realise in these days of large staffs of highly qualified chemists, that the whole of the research and analytical work at Howards was, for over 90 years, performed by the partners themselves. It was not until the eighteen eighties that the first Assistant Chemist employee was engaged. You can be sure that the work started by Luke Howard in 1797 and subsequently so carefully developed by his descendants was not lightly entrusted to others without first ensuring that they were fully qualified to take the responsibility. This care in research, development and manufacture is still a distinguishing feature of Howards today.

Safe as

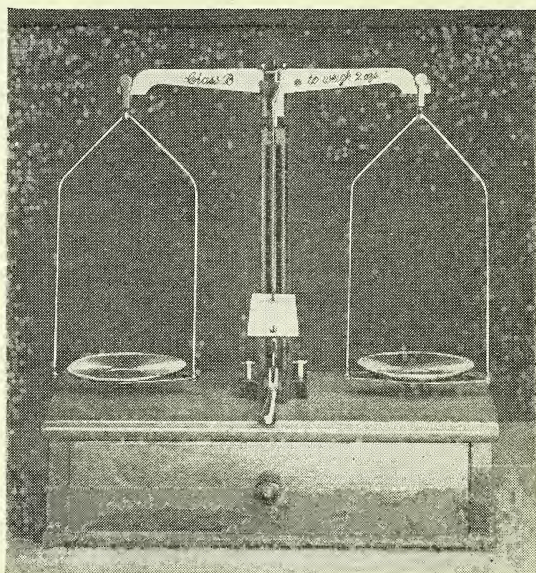
**HOWARDS**

Bromides, Citrates  
 Iodides, Iron Salts  
 Bismuth Salts  
 Sodium Bicarbonate



Lactates, Aspirin  
 Salicylates, Ethers  
 Quinine Salts  
 Tablets—etc.—etc.





## *The No. 50 Dispensing Balance*

A good reliable balance at a reasonable price. The light alloy beam and aluminium indicator give the scale a particularly high sensitivity. This sensitivity is maintained over a long period. Pans and stirrups are of brass. The box is of polished mahogany.

**PRICE (weights extra) £6**

DRACHM AND GRAIN WEIGHTS 13/6 per set

# MACDONALD & SON LTD.

HOPE MILLS, POLLARD STREET, MANCHESTER, 4      Ardwick 1561-2

## Outstanding products for Effective Antihistamine Therapy

trade mark

brand

# 'ANTHISAN'

mepyramine maleate

for general use in allergic conditions

trade mark

brand

# 'PHENERGAN'

promethazine hydrochloride

for the case which fails to respond  
satisfactorily to 'Anthisan'

### TABLETS

Containers of:

- 25 × 0.05 Gm. at 2s. 9d.
- 100 × 0.05 Gm. at 10s. 0d.
- 500 × 0.05 Gm. at 45s. 0d.
- 25 × 0.10 Gm. at 4s. 0d.
- 100 × 0.10 Gm. at 14s. 6d.
- 500 × 0.10 Gm. at 60s. 0d.

### ELIXIR

Containers of:

- 4 fl. oz. at 2s. 9d.
- 80 fl. oz. at 42s. 6d.
- (each 4 c.c. teaspoonful  
contains 0.025 Gm.  
mepyramine maleate)

### 2.5 PER CENT SOLUTION

Boxes of:

- 10 × 2 c.c. ampoules at 8s. 0d.

### 2 PER CENT CREAM

Containers of:

- 1 oz. at 3s. 6d.
- 1 lb. at 36s. 0d.

### TABLETS

Containers of:

- 25 × 0.025 Gm. at 6s. 0d.
- 500 × 0.025 Gm. at 105s. 0d.
- 25 × 0.01 Gm. at 4s. 0d.
- 500 × 0.01 Gm. at 70s. 0d.

All prices exempt from  
Purchase Tax

manufactured by



## MAY & BAKER LTD

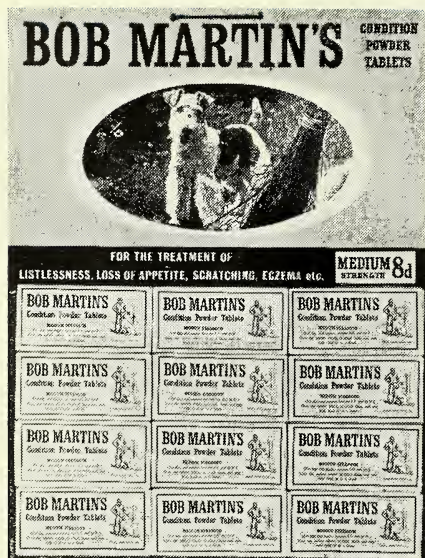
48147

distributors

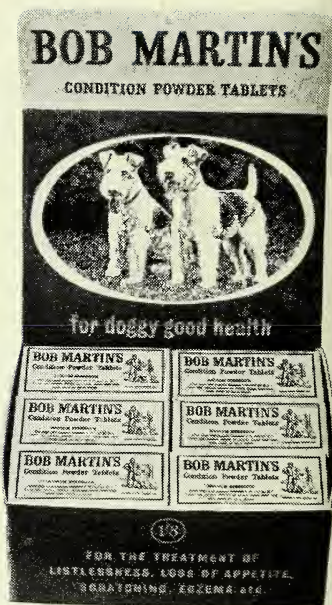
PHARMACEUTICAL SPECIALITIES (MAY & BAKER) LTD. DAGENHAM



# BOB MARTIN-1950



*Hanging cards, 13" x 10", with three different colour schemes and illustrations, for large, medium and small tablets.*



*Display outer in maroon, green and black.*

## These Will Help Your Sales!

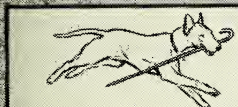
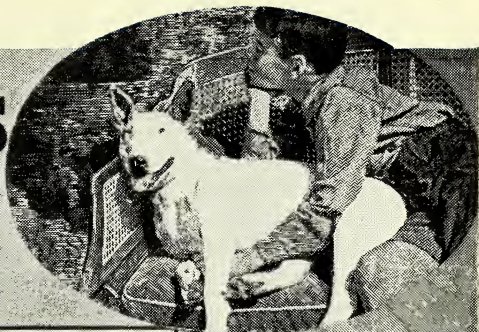
From now until the end of the summer every one of the three to four million dog owners in the country will be seeing Bob Martin advertisements more often than ever before. And this means more customers for you! To get the fullest possible advantage from this campaign, make use of the tie-up provided by our new point-of-sale material. The sooner you have this on display, the sooner you'll notice the difference in your sales! Write *now* and tell us which display screens and showcards (illustrated opposite) you would like to have. The hanging cards and display outers shown above are supplied with your order for Condition Powder Tablets.

**BOB MARTIN LIMITED DISPLAY DEPT. SOUTHPORT**



# DISPLAYS NOW READY!

## Bob Martin's for doggy good health



For a **HEALTHY** dog who's always full of beans.



For a **HUNGRY** dog who polishes every plate.



For a **HAPPY** dog who's friends with everybody.



For a **HANDSOME** dog whose coat's a perfect picture.

*Regular conditioning means  
one Bob Martin's once a day*



*Display screen, 16" x 25", in red, black and yellow.*

*Showcard, 9" x 6", in  
red, black and yellow.*

**BOB MARTIN'S**

**for doggy  
good health**

**REGULAR CONDITIONING MEANS  
ONE BOB MARTIN'S ONCE A DAY**

**BOB MARTIN'S**

**for doggy  
good health**

**REGULAR CONDITIONING MEANS  
ONE BOB MARTIN'S ONCE A DAY**

*Showcard, 15" x 10", in  
red, black and yellow.*

*Showcard, 9" x 6", in  
black, maroon and fawn.*

**BOB MARTIN  
PREPARATIONS  
FOR DOGS**

---

**TIBS  
PREPARATIONS  
FOR CATS**

*There's a lovely skin...*



*...well  
that's  
Nivea*

Charming and attractive, she is another of the lovely ladies featured in the 1950 advertising campaign for Nivea Creme, which is running in all the important women's weekly magazines throughout the country. Colourful window display material for different seasons is available on request. This widespread advertising will have a good effect on sales, so make sure that you have plenty of stock of Nivea Creme in all pack sizes.

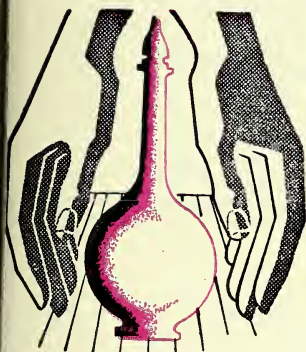
*for skin-health and beauty*



*skin needs* **NIVEA**



TO MANUFACTURERS OF ETHICAL PRODUCTS

**Monsanto****PHARMACEUTICALS**

The three essentials of dependable pharmaceuticals — quality, uniformity and purity — are guaranteed by the rigid control undertaken at our Plants. Monsanto pharmaceuticals not only conform to B.P. standards but frequently surpass those standards by a considerable margin.

**MONSANTO  
PHARMACEUTICALS  
INCLUDE :**

ASPIRIN : ASPIRGRAN  
ACETYL SALICYLIC ACID B.P.  
SODIUM SALICYLATE B.P.  
SALICYLIC ACID B.P.  
METHYL SALICYLATE B.P.  
PHENACETIN B.P.  
SODIUM BENZOATE B.P.  
BENZOIC ACID B.P.  
SALICYLIC ACID  
(Technical)  
PHENOL B.P.  
CRESOL B.P.  
CRESANTOL 3  
CRESANTOL 15  
CRESANTOL 15R  
P.C.M.C. : P.C.M.X  
PHENOLPHTHALEIN B.P.  
LYSOL B.P.  
VANILLIN B.P.

**ASPIRGRAN**

Physical Form : Granular

**ACETYL SALICYLIC ACID B.P.**

Physical Form : Crystals ; Powder

**SALICYLIC ACID B.P.**

Physical Form : Crystals ; Powder

**SODIUM SALICYLATE B.P.**

Physical Form : White Flakes ; White Powder

**METHYL SALICYLATE B.P.**

Physical Form : Clear Colourless Liquid

*Write to Sales Department  
for Bulletin "Chemicals for the  
Pharmaceutical Industry".*

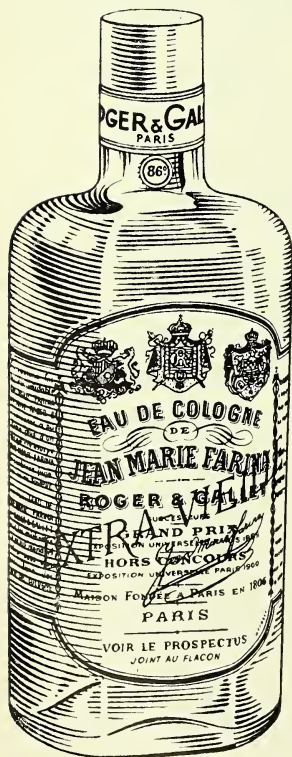
**MONSANTO CHEMICALS LIMITED**  
VICTORIA STATION HOUSE, LONDON, S.W.1

# BONUS OFFER

to re-introduce

JEAN MARIE FARINA

the world's premier Eau de Cologne



The genuine, original Jean Marie Farina Cologne is now again on the British market, and will be the subject of powerful advertisements occupying whole pages in all these important publications:

**Vogue  
Punch**

**Good Housekeeping  
Tatler**

**Woman's Journal  
Ideal Home**

**Homes & Gardens**

*Write or telephone now for details  
of the introductory Bonus Offer.*

**ROGER & GALLET**

Lechmere Road, London, N.W.2

Telephone: Willesden 2171-2





# POWDERED DRUGS

Over a century's experience  
goes into the milling of our :

**DIGITALIS  
IPECAC.  
BELLADONNA  
RHEI  
LIQUORICE  
ALOE  
GENTIAN**

*Send us your enquiries and orders*



**STAFFORD ALLEN & SONS LTD., Wharf Rd., London, N.I. CLerkenwell 1000**

TAS/AL.336

# NATIONAL

for White Flint Glass Containers of Quality  
for delivery from stock, in convenient easily-  
handled cartons



## DISPENSING BOTTLES

1-oz. to 20 oz. Plain—  
Cork Mouth or Screw.  
2-oz. to 16 oz.—Plain or  
Graduated.

## RIBBED OVALS

Cork Mouth or Screw.

## VIALS

$\frac{1}{2}$ -oz. 1-oz.  $1\frac{1}{2}$ -oz. 2-oz.  
 $\frac{3}{4}$ -oz. Medium or Tall.

## TABLET BOTTLES

Nos. 1 to  $7\frac{1}{2}$  sizes.

## ROUND SCREW JARS

$\frac{1}{2}$ -oz. 1-oz. 2-oz. 4-oz.  
 $2\frac{1}{2}$ -oz. Shoulderless  
Screw Jar.

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White Enamelled Tin-  
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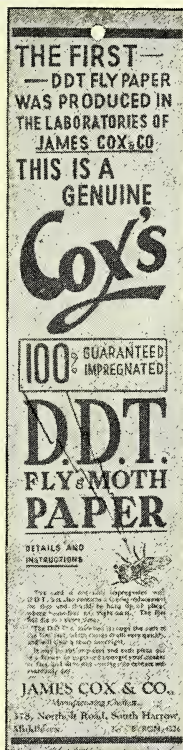
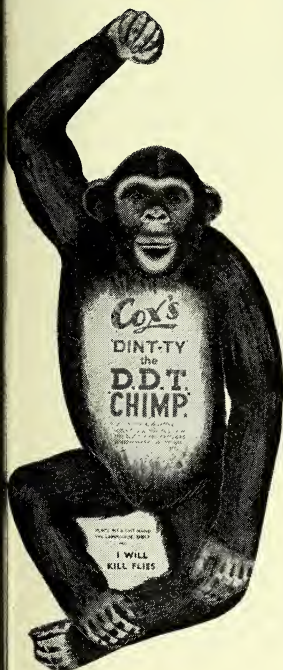




# COX'S D.D.T. CARDS

ARTISTIC .... EFFECTIVE .... THE BEST

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**ALL ACCOUNTS LESS 2½% — 30 DAYS**

**OVER 12,000 PHARMACISTS STOCK COX'S D.D.T. CARDS**

*Because they are guaranteed 100% impregnated and have a TWO YEAR-LIFE . . . Not merely surface coated*

*Obtainable from all leading Wholesalers, or direct from*

## James Cox & Co.

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Telephone : BYR0n 4326

# How to help your customers choose a toothbrush

THERE'S NO DOUBT that they'll need help. Very few people know what to look for, or how to tell good from bad. The next time your guidance is needed, here are some pointers:



**STRAIGHT OR CROOKED HANDLE?** So many different shapes. But only Wisdom's correct-shape handle is scientifically designed for quick, easy cleaning. So when you sell a Wisdom, you can be sure you're selling the *correct-shape* brush.



**SIGNS OF OLD AGE** At the end of its life, bristle snaps off, so that the tufts get thinner and weaker. Nylon can't snap! Instead, it bends over, gradually gets weaker and weaker. In either case, it's time for a new Wisdom!

**STOP PRESS:** *The new Wisdom Display Bonus Offer gives you six free brushes on an order for only six dozen. Only a short time left—ask your Wholesaler for full details.*





**NYLON OR BRISTLE?** Both have their supporters—often guided by dentists' advice. But where your customers have no preference, it's a point of interest that a Wisdom Nylon outlasts the best bristle brushes. Yes, even a Wisdom Bristle!



**HOW HARD?** You've probably met this question a lot. Many people know that a bristle brush softens when wet—so they buy a bristle brush harder than they need. But nylon stays hard—so sell them a Wisdom Nylon of the right texture.

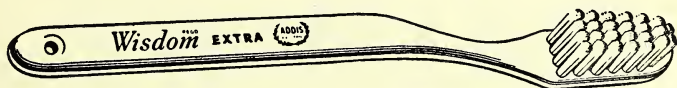


**BRISTLE AND BRISTLE** Not all bristle brushes are the same! Bristles from various parts of the world vary tremendously. Experts choose Chungking and Siberian bristle as the best—and they're the only kind that are used by Wisdom.



**NAME?** Behind the name of Wisdom lie many years of experience—we made the first toothbrush in 1780, so we should know something about it. So when you sell a Wisdom, either Nylon or bristle, you can be sure that you're selling the best.

**Wisdom** REGD.



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**MADE BY ADDIS LIMITED, HERTFORD**

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It Sells on Sight

**Elasto**  
The Biochemic Tablet  
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**E**LASTO advertising is widespread and consistent. An ever increasing demand for this product is being created at your very door. Are you taking full advantage of this opportunity for new business created in your area by this vigorous campaign? 'Elasto' sales-aids displayed in your window or on your counter will convert the 'prospect' we have created into a customer for you. And remember repeats and recommendations come freely from initial sales of 'Elasto'.

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Of all Parkinsons' products, none has done more to build up their makers' reputation than **PARKINSONS' PILLS**.  
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*stable*      P. A. S.      *WANDER refined*

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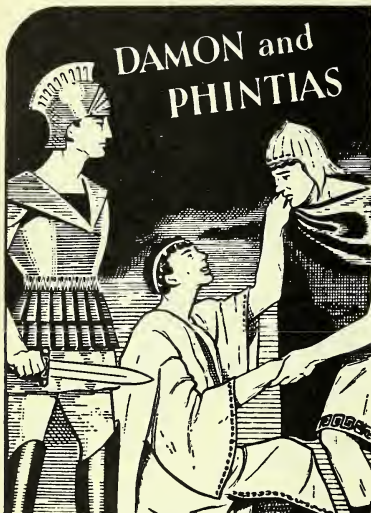
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M 271



Phintias, condemned, asked leave to go and arrange his affairs. Damon offered his life as surety for his friend's return. Returning only just in time to save Damon, this faithfulness was rewarded with Phintias's pardon.



Mutual fidelity was the salvation of Damon and Phintias—*only the timely presence of the one redeemed the other's life.* There are many Damon-and-Phintias-like interdependences among nutrients—essential food factors whose usefulness depends upon their timely *mutual* presence in the diet.

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a single supplement for multiple deficiencies

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IN BOTTLES OF  
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is supplied in

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Boxes of 60 Tablets

Dispensing Size : Tins of 1,000 Tablets

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(60 grains calcium gluconate)

Tins of 12 and packages of 60 Tablets

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*To Chemists in Scotland*

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Accordingly, as from **May 1st, 1950**, the entire distribution of our products in Scotland will be effected from Welwyn Garden City and we ask the trade to note this carefully to prevent delays arising in the execution of orders.

We take this opportunity to express our appreciation for the help and co-operation received from pharmacists during the past few years.



## ROCHE PRODUCTS LIMITED

*Welwyn Garden City, Herts.*

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**BAILLY**

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**PYOREX**

(2) Established on its merits as a germicide, with non-abrasive cleansing properties and pleasant flavour.

**POINTS**

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**AVAILABLE NOW !**

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**AVAILABLE MAY 1st !**

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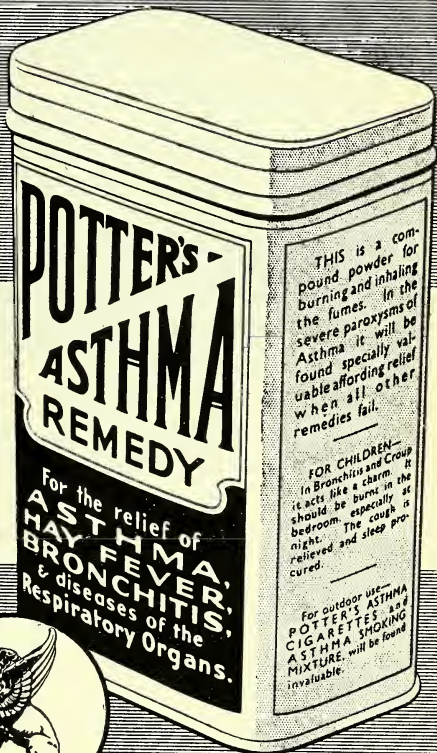
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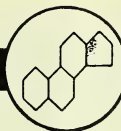
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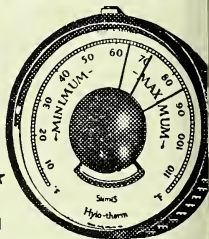


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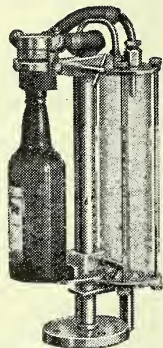
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*more customers - more profits!*

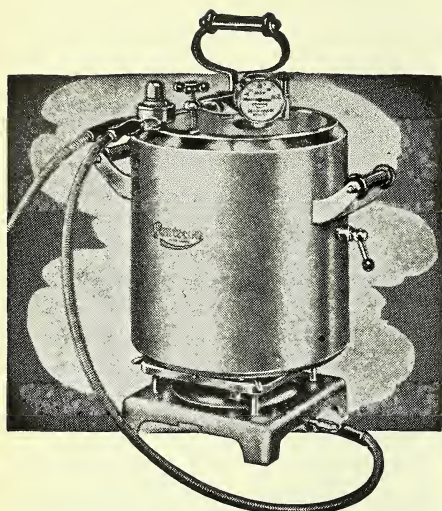


By using Shomore Equipment you can build up inviting modern displays that will attract extra custom to your shop and extra profits to your till.

Write NOW for free copy of the Shomore booklet "LOOK BEYOND YOUR WINDOWS"

*Sell more by* **'shomore'**

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LODGE CAUSEWAY • FISHPONDS • BRISTOL



PENTECON • PENTECON • PENTECON • PENTECON

## the advantages of the **PENTECON** Autoclave

### THERMOSTATIC CONTROL

The thermostat, independent of the pressure factor is the most accurate means of obtaining a consistent temperature. Designed for use over a gas ring or portable burner, it is constantly in control, after initial adjustment to suit the requirements.

Made from a special formula aluminium, the 'Penteccon' is light and handy to move about. The lid design provides a steam-tight joint, which cannot be opened under pressure.

To use saturated steam, allowing operation at lower pressure in relation to temperature, an Air Blow-off Valve is fitted. A Pressure Regulator Valve whistles when the required temperature is reached.

The temperature of a liquid in an open vessel within the 'Penteccon' can be checked by previously inserting a chemical thermometer through a gland in the lid.

CAPACITY—11" x 10½". Contents approx. 26 pints or seven 20 oz., or M.R.C. Standard Blood Bottles.

The 'Penteccon' is economical in price and operating costs. Price (excluding gas ring and flexible tubing, which are not supplied) **£16. 16.0**

A fully descriptive leaflet will be sent, post free, on request to Dept. 3, Penteccon, Ltd., Accrington. Please mention the name and address of your normal supplier.

**PENTECON LTD. ACCRINGTON**



**PHARMACEUTICAL CHEMICALS**  
**ALKALOIDS • DRUGS • OILS**

★  
*Manufacturers of*

**BENZAMINE & SALTS**  
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BY  
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**Steadily drifting South...**

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THE POWDER WITH A REPUTATION

**For over 30 years  
Scotland's leading  
Proprietary Medicine**

for the speedy relief of  
Headaches, Neuralgia, Neuritis  
and all Nerve Pains

Manufactured by  
ASKIT LTD MANUFACTURING CHEMISTS  
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and stocked by  
ALL LEADING WHOLESALE HOUSES



FOR THE PAST SIXTY YEARS  
the public has known, liked  
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as a fine remedy for digestive  
troubles. They  
are still a good  
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ist, all year  
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FOR INDIGESTION

P.A.T.A. Retail Prices  
INCLUDING PURCHASE TAX  
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*The* **ARTHOL**

TRADE MARK

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**PERFUMES**

CONCENTRATED ESSENCES  
AROMATIC CHEMICALS  
SYNTHETIC ESSENTIAL OILS  
TERPENELESS  
for all purposes



**SEALAND ROAD**

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# Hollypax

## economy means extra sales

The nation-wide need to economise means that Holly-Pax will be in bigger demand than ever before. Because Holly-Pax is the best tampon value on the market . . . because more and more women who prefer modern insertion-type sanitary protection must now "count the pennies" . . . because Holly-Pax is well advertised, and attractive Display Material is available for your use . . . you're bound to benefit from bigger sales and quicker profits. Stock up now with Holly-Pax!



# holly-Pax

FROM HOLLYWOOD ★

Modern Insertion-Type Sanitary Protection

Sole Distributors:

FASSETT & JOHNSON LIMITED,  
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## TWO-WAY STRETCH

# Lastonet

### SURGICAL STOCKING

with **NYLON**  
Mixture Foot

Lastonet, the renowned made-to-measure Surgical Stocking is now available with a Nylon Mixture Foot, giving greatly increased wear.

Measurement forms and details from the makers:—

**LASTONET PRODUCTS LTD.**  
Carn Brea, Redruth  
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No increase  
in price

Now supplied with **Nylon Mixture Foot**

*Lastonet for inconspicuous support*

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OVER 150 YEARS REPUTATION

# KEARSLEY'S

THE ORIGINAL

## WIDOW WELCH'S FEMALE PILLS

9d. BOX PROFIT by ordering 1 dozen 3/3½ size. Bonus given on every dozen (13). It pays to push this size

**C. & G. KEARSLEY LTD.**  
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## MIRROR METALLIC PAPERS

for Window Dressing, etc., Silver, Gold, Red, Green, Blue, Cerise: 8/6 per roll. 20in. x 12 yd. Send for Samples also of other Window Dressing Papers, Crepe Paper and Coloured Tissues, etc.

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A FEW STOCK SIZES.	ALL PER 1,000
1½ x 2½ .. 12/6 3½ x 6½ .. 30/-	4½ x 8 .. 37/6
3 x 3 .. 16/- 3½ x 8 .. 35/-	5 x 5 .. 30/-
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3 x 4 .. 22/6 4 x 6 .. 30/-	5 x 9 .. 45/-
3 x 5 .. 24/- 4 x 7 .. 35/-	5½ x 10 .. 50/-

"CELLOPHANE" SHEETS FOR WRAPPING  
20 x 30. 50/- 500. Rolls. 5yds. x 20". 18/- doz.

ASK FOR LISTS AND SAMPLES

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PHONE: CENTRAL 5947. GRAMS: SUNFLECTA, CENT. LONDON  
(UNDER HOLBORN VIADUCT) Business Hours: 9 a.m. to 6 p.m. Closed Saturdays

*Just as we've always said*  
**"DUCKY"**  
**is a natural line for Chemists**

Child's legs fit closely round DUCKY'S neck, enclosing chamber making splashing impossible.

Beak forms handle and allows correct position to be found in the dark.

Oval shape is comfortable and practical for children of all ages and both sexes.

Long, broad base keeps DUCKY firm and steady—will not tilt or slip.

Made of heat-resistant AKENITE plastic — can be scoured with hot water.

Angle of deflector is inwards and deflects downwards.

**SALES RECORDS broken by Lancs. Chemist**

A Southport chemist had to repeat TEN times to keep up with demand! Other traders have repeated NINE, EIGHT & SEVEN TIMES! If YOUR sales fail to match up with these figures, what's the reason?

Do you DISPLAY DUCKY well forward?

Do you show ALL COLOURS?

Are your STOCKS adequate?

Better check these points and re-order

**TRADE PRICE 10/4½ SELLING AT 18/11**  
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**ducky**  
REGD. & PATENTED DESIGNS

*Makes childish duties FUN!*

Trade enquiries to: **ROY AITKEN & PARTNERS, 48, DUNDAS STREET, GLASGOW C.I.**  
Telephone: **DOUGLAS 6581 (10 lines)** • Telegrams and Cables: **ROYAITCO, GLASGOW.**

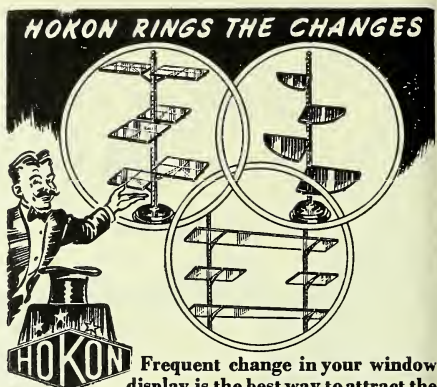
We are exhibiting at the B.I.F. STAND N.68





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IMPERIAL WORKS, ST. GEORGE, BRISTOL, 5  
GRAMS TINPAX BRISTOL PHONE BRISTOL 57877/8



Frequent change in your window display is the best way to attract the customers' eye. With Hokon Display equipment you can "ring the changes" as often as you like with the minimum effort and the maximum effect.

You can change the height, layout and the look of your display in a matter of minutes, and your goods are displayed to the best possible advantage.

**CHURCH & CO (Fittings) LTD**  
16 THE ORACLE, MINSTER STREET, READING

# HOLD IT!

## FOR COLLECTION BY C.R.S.

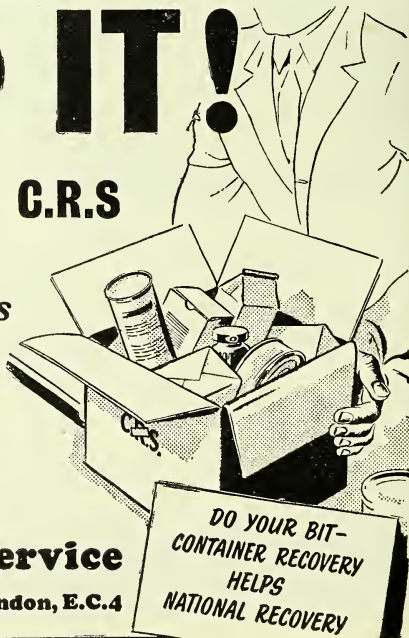
*— and help save dollars*

Fibreboard contains wood pulp and wood pulp costs dollars—so does the machinery that makes the containers. Saving C.R.S.-marked empties means a saving in dollar expenditure, and is a vital national duty in these difficult times.

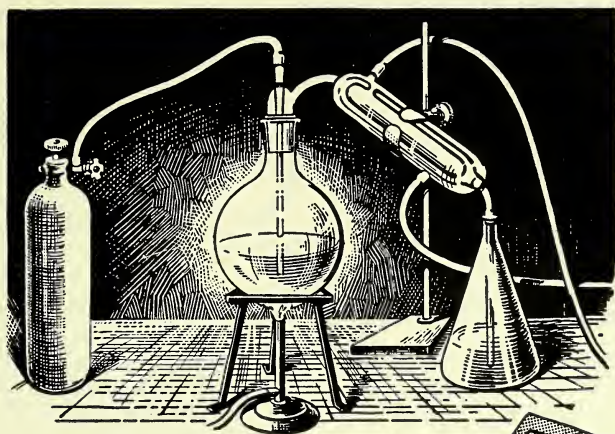
## Container Recovery Service

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CRS 61-683







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accuracy of



# RODINE

**PATA**

*is indisputable!*

Every batch of Rodine Rat Poison is biologically and chemically tested before packing, so that you can always recommend it with complete confidence.

Retail Prices: 9d., 1/6, 3/-, 6/-

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# COLCHICINE

B.P., U.S.P.

For use in Treatment  
ofGOUT, ASTHMA, CEREBRAL  
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## d-Tubocurarine Chloride

The Pure Crystalline Alkaloid  
for securing Muscular Relaxa-  
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AN ALL COTTON WOOL PRODUCT OF REPUTE

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ALL WOOL SANITARY TOWELSLOOPED ENDS  
NON-ABSORBENT BACK  
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Phone: GREAT MOOR 3004 Grams: "UNDISPUTED," STOCKPORT

# It's a family affair!

HILLCREST TOILET ROLLS are made of the purest Toilet  
Tissue, and each sheet is medicated with Pine germicide

## 6 Star SELLING POINTS!

- ★ ATTRACTIVELY Banded IN THREE COLOURS ON GLAZED PAPER in 6 oz., 7 oz., and 8 oz. weights
- ★ SUPER QUALITY manufactured from purest toilet tissue
- ★ KEEN PRICES FOR QUANTITIES to established Wholesale-  
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- ★ ALL SHEETS MEDICATED WITH PINE GERMICIDE
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- ★ CUSTOMERS' OWN DESIGNED GLAZED BANDS PRINTED (NO EXTRA CHARGE)

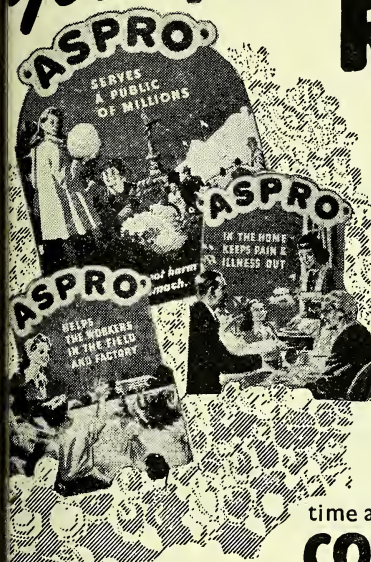
Sole Manufacturers: LIPTONS PAPER MILLS LTD.,

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**TRADE ENQUIRIES INVITED**

Estd. 1898

# You get an **ACTIVE RESPONSE** from an **'ASPRO'** DISPLAY



'ASPRO' displays are powerful pullers because they act as vivid reminders to thousands of 'ASPRO' users, and 'ASPRO' is better known to the public, and means more to them, than any other line of its kind. 'ASPRO' displays give you a double advantage—they increase your profit margin by qualifying you for bonus and at the same time are, in themselves, making steady sales for you.

## CONSTANT DEMAND SHIFTS 'ASPRO' QUICKLY — *Keep good marginal stocks on hand* **'ASPRO' BAGS—PRICES REDUCED**

We are passing on to you the full benefit of the lower production costs of paper bags :

**REASEPROOF** (formerly 9/- per 1,000) NOW 6/- per 1,000.

**OZ. WHITE** (formerly 6/6 per 1,000) NOW 5/- per 1,000.

We suggest you take advantage of this opportunity by ordering now.

## AN ELECTRIC CLOCK AT COST PRICE — £3

We are now able to supply you with a precision-made Smith's Setric "Clock (as illustrated) for use in your shop or window—size 13½ in. by 10½ in. It is a quality job, elegant and modern in appearance and an excellent timekeeper. We have had a host of approving comments from the 800 chemists who have already installed these clocks. Take advantage of this opportunity now. NOTE: These clocks are not suitable for use on D.C. mains but in such cases we can supply an 8-day Smith's lever movement clock at £3 15s. 0d.

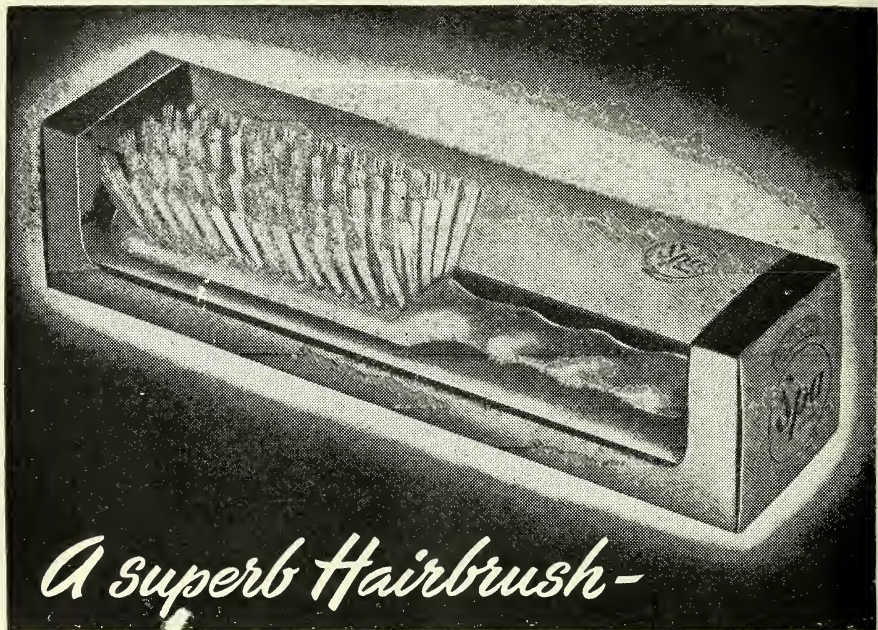


**ATA**

Made in England by  
**ASPRO LIMITED, Slough, Bucks**

**'ASPRO'**  
REG. TRADE MARK





*A superb Hairbrush -  
and selling faster in 1950!  
at 6/11d*

**A SELF SELLER NOT  
A SHELF DWELLER**

*7" Combs to match available*



MADE BY

**SPA BRUSHES LTD.**

FREEMAN WORKS • CHESHAM • BUCKS

**... so unobtrusive**



There are dozens of reasons why the modern woman prefers Tampax. Unobtrusive in use, Tampax is safe, comfortable and certain; giving absolute protection at all times with the maximum daintiness. Tampax, worn internally, was invented by a doctor, and anatomically is perfect in every detail.

Now that Tampax Super Absorbent No. 2 is available, you can cater for every individual requirement. Where Tampax is displayed, women will readily buy, so display Tampax No. 1 and 2, side by side, and get more sales. *Regular Tampax No. 1—1/9d. per packet; 40 for 6/6d. Regular Tampax No. 2—2/- per packet; 40 for 7/6d.*



**TAMPAX**

*Sanitary Protection Worn Internally*





**SCANDINAVIAN  
SULPHITE**

**8d.**

RETAIL  
INC. TAX



**FULL WHOLESALE  
DISCOUNT**

*Send for sample and  
complete price list!*

**CUMBERLAND PAPER CO LTD • CLEATOR MILL • CLEATOR • CUMBERLAND**

*London Office and Showrooms: 22 St. Giles High Street, London, W.C.2.*

*Tel: Tem 5905/6*



# INFANT FEEDING BOTTLES

ESSENTIAL FOOD AND  
DRUG CONTAINERS.  
MEDICAL FLATS AND  
PANELS, ETC., ETC.



The essential needs of the nation still demand priority. To those planning ahead we invite enquiries for Glass Container Requirements.



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**LAX & SHAW** Ltd

REGD. OFFICES: Scott House 69 South Accommodation Rd., LEEDS, 10  
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*Popular & Fast Selling*

# SUNGLASSES

*75 styles for 1950!*

*Retailing from 8<sup>d</sup> to 2gns.*



Models 549/650 Fitted with CROOKES LENSES, pin hinges drop-eye and round eye shapes in two sizes. Most popular selling line for four years at a new price—2/- **Retail** Colours: Crystal rose, white, crystal, crystal blue and shell. Send for Illustrated Leaflet.

Before buying your Sunglasses for 1950 be sure to consider carefully this outstanding Bartlett range. Order from your wholesaler.

*Wholesale enquiries to*

**ALFRED FRANKS & BARTLETT CO., LTD.**

**AUDREY HOUSE, ELY PLACE, LONDON, E.C.1.**

# What is the EASIEST SELLING flyspray?

Every time it's Cooper's . . . because Cooper's Household Flyspray does the job more effectively, knocks down flies quicker and, what's more, the ample D.D.T. content makes sure they never get up again. Moreover, if sprayed lightly over walls, light fittings etc., an 'invisible' non-staining film of insecticide is deposited that goes on killing for weeks. Cooper's Household Flyspray also has a pleasant smell. It sells easily, and this year a lot of selling is being done for you in the leading Women's Journals. So be ready to meet the demand for Cooper's Household Flyspray. Order your supplies now, or write for current Trade list.



## COOPER'S

*The Housewife's Choice*





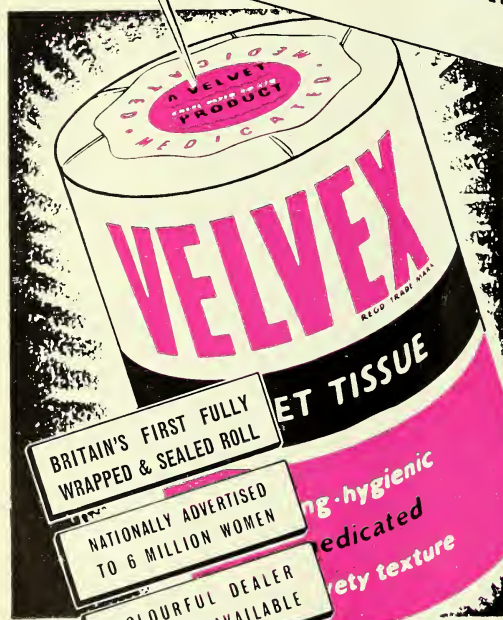
# NOW! STARRING IN AN

## ALL IMPORTANT ROLL

★ *that's different . . .* ★

# THE NEW

## MEDICATED, FULLY WRAPPED & SEALED



BRITAIN'S FIRST FULLY  
WRAPPED & SEALED ROLL

NATIONALLY ADVERTISED  
TO 6 MILLION WOMEN

COLOURFUL DEALER  
DISPLAYS AVAILABLE

FULL CO-OPERATION  
INVITED & GIVEN

# VELVEX

## ROLL

Representing all that we have strived to achieve in our manufacturing processes — the scrupulous cleanliness that this product demands — VELVEX, in the new red wrapper is a quality toilet paper at a popular price. Completely wrapped, it is fully protected against the hazards of contamination in transit and storage.

### THERE'S A FAMILY 'LIKENESS'

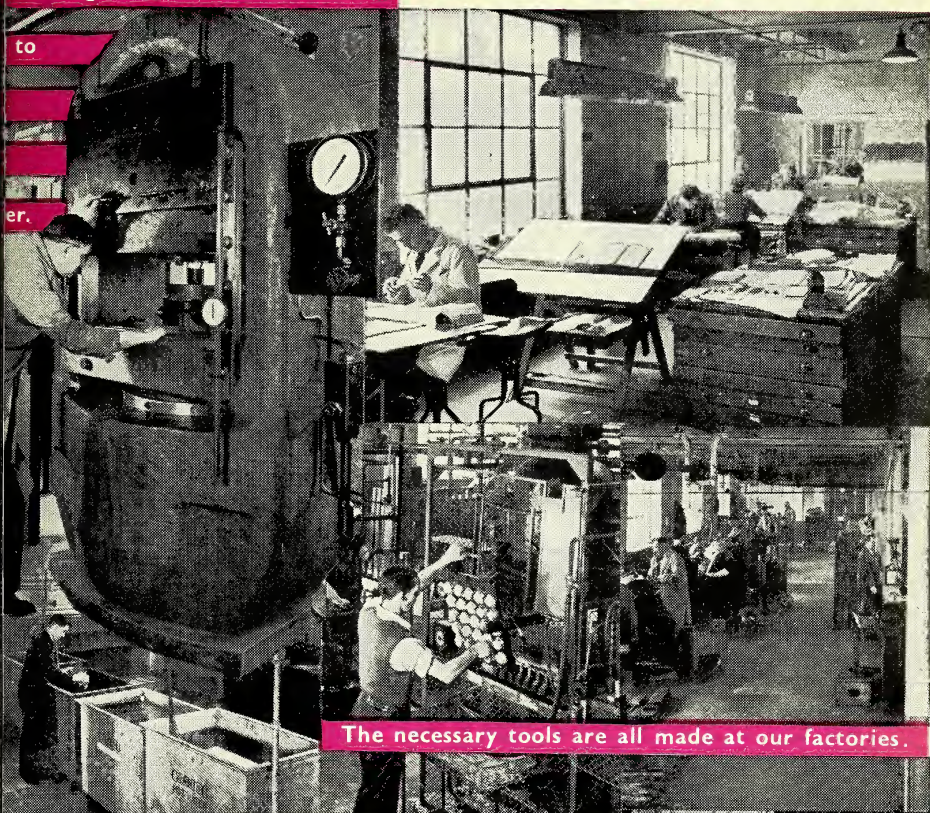
The famous VELVEX Interleaved Tissues set the quality standard for their new companion toilet roll, and the goodwill of this established line will launch the fully wrapped VELVEX ROLL towards equal heights of popular demand. ORDER NOW from your usual wholesaler FOR IMMEDIATE DELIVERY.



**NOTE** • As from March 1st VELVEX blue Roll was discontinued. Fully wrapped red label VELVEX are the same price, same quality—with a new and unlimited sales potential.

# MOULDED CLOSURES

with designs or models of moulded



The necessary tools are all made at our factories.

Laboratory recommends

## U G B

**BOTTLES  
AND  
CLOSURES**  
*The Perfect Pair*

can supply moulded  
res to special designs or  
stock moulds in opaque  
insolent colours. The  
lete co-operation be-  
n our Bottle and Cap  
ks ensures efficient  
g of your product."

the best liner for your product and

after the closures are moulded they

are individually inspected.

## UNITED GLASS BOTTLE MANUFACTURERS LTD

8 LEICESTER STREET, W.C.2

GERRARD 8611 (15 Lines)

Grams: UNGLABOMAN, LESQUARE, LONDON





are increasing the  
*demand*  
for  
**Ortho-Gynol**

by **FEATURING**  
Ortho-Gynol  
you are taking  
a realistic step  
towards sales  
development in  
**YOUR**  
**PHARMACY**

*Consistently promoted to the medical  
profession through direct representation, mail  
and advertising . . . the effective and universally  
accepted contraceptive developed through exhaustive  
gynaecological research.*

★ *Available through your usual wholesaler.*



**Ortho Pharmaceutical Ltd.**

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*Makers of Gynaecic Pharmaceuticals*



A LIVE LINE ★ ★ ★



- ★ INCREASED ADVERTISING
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- ★ ATTRACTIVE SHOW MATERIAL

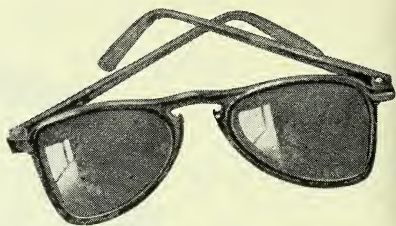
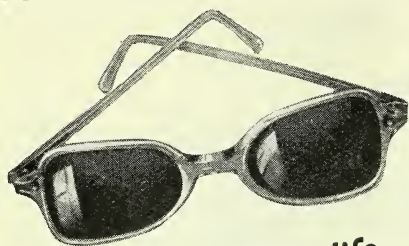
Hiltone is a ready-selling line that brings back customers again and again. They know they can rely on Hiltone's controlled action either to brighten the hair and restore the gloss of youth or to make it perfectly fair—and always natural-looking. Country-wide demonstrations and bigger-than-ever

press advertising, backed by attractive show material, will ensure a big year for Hiltone. The famous slogan—"As light as you like . . . and no lighter"—will be seen—and acted on—by millions of readers. Stock Hiltone, display it—you'll sell it. Show material sent on request.

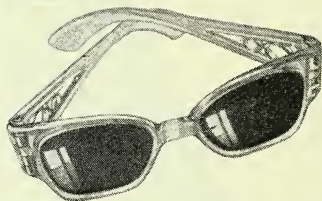
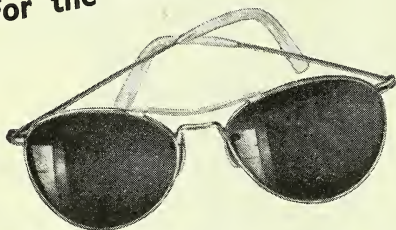
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AS LIGHT AS YOU LIKE . . . AND NO LIGHTER

COUNTY PERFUMERY CO. LTD., STANMORE, MIDDLESEX



For the SUN-FULL life...



Wide range of designs  
to suit all requirements

ORDER NOW—PLACE YOUR ENQUIRIES THROUGH THE USUAL WHOLESALER OR DIRECT:—  
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# DEATH to MOTHS

## NEW LIFE FOR YOUR BUSINESS



**STOCK PROMOL JUNIOR MOTH RINGS** and cash in on the Moth menace. By incorporating Napthalene with Paradichlorbenzenium and DDT, they KILL as well as repel. The first two ingredients, powerful repellants, gradually evaporate, leaving the deadly DDT as a fine powder that KILLS BY CONTACT.

Displayed in their attractive red, white and blue carton, at 8 rings for 4d. They are BETTER-THAN-EVER SELLERS. Send your enquiries today:

# PROMOL

*Junior*  
**MOTH RINGS**

**PROMEDICO PRODUCTS LTD.**  
22 TURLE ROAD, LONDON, N.4.



# **SCRAM**

## **THE CLEAN METHOD**

NO BAIT • NO TRAPS • NO BODIES

**THE BEST REMEDY  
AGAINST MICE**

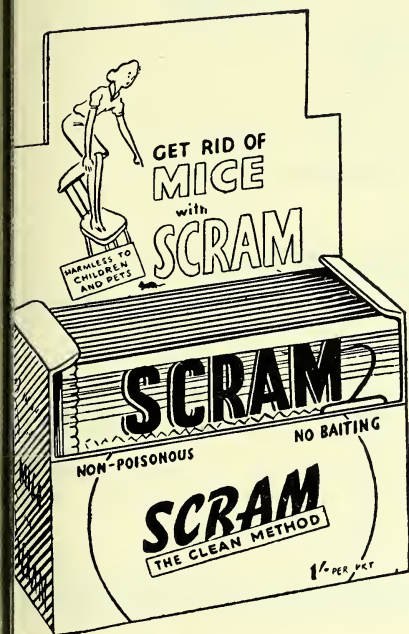
OVER 1,000,000  
PACKETS SOLD YEARLY

1 DOZEN DISPLAY BOX

**8/9**

3 DOZEN DISPLAY BOX

**25/6**



Retail **1/-** per pkt.

NATIONALLY  
ADVERTISED

*Display the*

**PACKS THAT SELL, SELL, SELL!**

Order from your wholesaler or direct

SCRAM PRODUCTS LTD., Dartmouth Park Hill, London, N.W.5


**ROTER**

# Roter Gastric Ulcer Tablets

indicated for:

## GASTRIC AND DUODENAL ULCERS

Retail prices: trial size (40) 7/11, standard size  
(120) 22/6, full treatment size (640) £5. 12. 6.

*Obtainable from the Importers:*

### F.A.I.R. Laboratories Limited

183 Heath Road, Twickenham

*Manufactured by:*

**Pharmaceutische Fabriek "Roter"**  
Hilversum, Holland

## D.C.L. VITAMIN B<sub>1</sub> YEAST TABLETS

Each ounce contains a natural Vitamin B potency equivalent to that of 25 mgm. Aneurin Hydrochloride, 1.4 mgm. of Riboflavin, and 8 mgm. Nicotinic Acid. Each tablet contains 100 I.U. (approx.) Vitamin B<sub>1</sub>.  
100 TABLETS 3/9d. 50 TABLETS 2/3d.

MANUFACTURED BY

THE DISTILLERS CO. LTD., EDINBURGH.



**TABLETS** MANUFACTURED  
to Customers' formulae

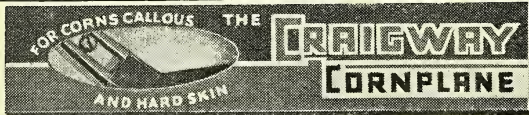
MODERN PLANT • PROMPT DELIVERY  
QUALITY AND ACCURACY  
GUARANTEED

B.P., B.P.C. &amp; N.F. tablets stocked

### G.O. WOODWARD & CO. LTD.

Macaulay 4375 146 LARKHALL LANE • CLAPHAM • LONDON • S.W.4

A



Individually packed  
in cartons

## DISPLAY CARD OF 18

RETAIL **2/3** PRICE

Sole Distributors:

**CRAIG & PARSONS LTD., 82, Stafford Road, Wallington, Surrey**

Phone: Wallington 3694

The remarkable success of the "Craigway" Corn Plane is due to the new principle involved. The angle of the blade is the secret. This new and profitable line only needs showing to SELL!

15/4 per doz. plus  
Purchase Tax  
Usual discount to  
Wholesalers





## SWIM CAPS

The Trade is requested to note that  
the RETAIL SELLING PRICE of  
PUCK SWIM CAPS in the U.K.

IS **1/6** EACH

*including tax*

We regret that a previous announcement  
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# GROVEWELL LTD

656 FOREST ROAD, WALTHAMSTOW, LONDON, E.17

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TO ENSURE A REGULAR SUPPLY  
THROUGHOUT THE SUMMER

THE FILM



FOR EVERY  
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Supplied in all the popular sizes and suitable  
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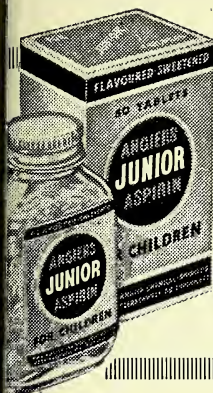
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Sizes	Per Doz. (incl. P. Tax)	Sizes	Per Doz. (incl. P. Tax)
"20" & "62"	20/-	"20" & "62"	26/8
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★ Sizes "29" and "16" available from mid-May; other sizes available immediately.

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**"Autumn Sun"**  
EXTRACT of MALT with COD LIVER OIL  
AND FLAVOURING B.P. Net. 1LB.  
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# Three good reasons for stocking and displaying **ANGIERS JUNIOR ASPIRIN** for Children

## **'JUNIOR' IS SPECIALLY PREPARED FOR CHILDREN**

Each tablet contains:—

**A SAFE DOSE OF ASPIRIN—1.25 grains**

**A SAFEGUARD AGAINST GASTRIC IRRITATION—Di-Calc.Phosph. 1.50 grains**

**SWEETENING AND FLAVOURING**

**TO MAKE THE TABLET PALATABLE TO CHILDREN**

## **'JUNIOR' WILL BRING YOU IMMEDIATE SALES**

Attractively cartoned and packed in one dozen display outers, and supported with showcards, **ANGIERS JUNIOR ASPIRIN** is being sampled and detailed by post to the Professions, and advertised to mothers of young children throughout the U.K.

## **'JUNIOR' WILL BRING YOU GENEROUS PROFITS**

The retail price of 'JUNIOR' including purchase tax is 1/6 per bottle of 50 tablets. Trade price per dozen excluding purchase tax is 10/-; purchase tax 3/4 per dozen.



# **ANGIERS JUNIOR ASPIRIN**

(Retail Price 1/6 for 50 tablets including P.T.)

Sole distributors for The Angier Chemical Co., Ltd.,

**ASSETT & JOHNSON LTD., 86, CLERKENWELL ROAD, LONDON, E.C.1**





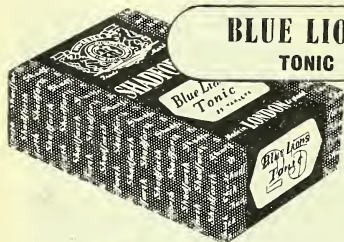
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*Proudly Present*

THREE PROVED SELLERS IN NEW PACKS



**WHITE LIONS**  
ANTACID TABLETS



**BLUE LIONS**  
TONIC



**SHADFORTH'S**  
DIURETIC TABLETS

### INCREASED TRADE DISCOUNT

These new packs carry 33½% discount backed by National Press Advertising to send you new customers.

Come and see the new packs at the British Industries Fair.

### STAND D.42

CHEMISTS SECTION, OLYMPIA.

### SHADFORTH LTD.

Manufacturing Chemists

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*with a fine reputation*

**CURICONES**—the tested and proved British remedy for the relief of Rheumatism, Fibrositis, Lumbago and Sciatica. In bottles of 30 and 180 capsules at 5/6 and 26/5 retail, incl. purchase tax—'Dispensing Only' Packs of 500 also available tax free. Nationally advertised consistently.

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**CURILAX**—a safe, non-habit-forming laxative in capsules that is completely effective yet absolutely harmless to the system. Ideal for children. Retail price 1/4 inc. tax.

**VICAPS**—Tonic Capsules—extremely valuable in cases of nervous depression, exhaustion, sleeplessness, debility, etc. Easily swallowed because of gelatine casing.

Retail price 3/3 and 16/10, inc. tax.

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**STE-MAT**—Nasal Balm, a germicidal and soothing preparation for relieving Catarrhal affections. In collapsible tubes with nasal applicator, retail price 3/3 inc. tax.

★ All the above preparations are subject to the full trade terms of 33½% and are C.F. and P.A.T.A. Lines.

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# Firm Favourites!

*with every member of the family . . . .*

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(MEDICINAL AND TOILET)

**SOAP . OINTMENT**

**TALCUM POWDER . SHAVING STICK**

These grand aids for skin-care have been giving confidence and satisfaction for over 65 years. Profits are good — Advertising consistent and widespread. Sales-promoting window displays always at your service.

*The following attractive products, each with a universal appeal, will shortly be added to the popular Cuticura Range:*

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**SHAVING CREAM . LIQUID ANTISEPTIC**

**AFTER-SHAVE LOTION**

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*for*

**THE POTTER DRUG & CHEMICAL CORPORATION**

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Customers will, when they see the attractive Lilac Spray carton displayed on your counter. It's rare to find a toilet soap with such true and long lasting perfume; rare to find such good quality at a modest price. It's value all right!

Retail 8½d. per 3-oz. tablet (Inc. P.T.)

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Katydid (2d.) "Lanterns" (4d.)

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ERA Moth Cartridges and Sheets

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DAK (Birdlime) for Mice and Rats—  
tubes 1/-; tins 1/9, 3/-

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**5/6**

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'HELP YOURSELF' OUTER  
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T/552

**Put it on your counter . . .  
sales are growing faster than  
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every customer  
for lipstick . . .

IS A CUSTOMER  
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Supplement  
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the profit-making line that  
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LIP-COTE—the only preparation of its  
kind—applied over lipstick, definitely  
safeguards against smear, while en-  
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for SMEARPROOF LIPS



time you  
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**SOFTEX**

—to meet the big demand

Softex is available in cartons containing 72  
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Retail price—Rolls 1/3d., Interleaved  
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POWDER—LIQUID—FLYPAPERS  
ARE WORTH SELLING

**33 $\frac{1}{3}$ % DISCOUNT PLUS EXTRA 10% BONUS**  
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ATTRACTIVELY PACKED  
SPECIAL DISPLAY MATERIAL

Send for price list.

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Thank Kolynos for



**BIGGER SALES**

There's a new campaign running  
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**Thank Kolynos for whiter teeth, sweeter breath**

is its message. Take advantage of the  
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Insecticide**



*It's the  
EXTRA POWER  
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PILLS**

Eade's Rheumatic and  
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with a 100 year old fame.

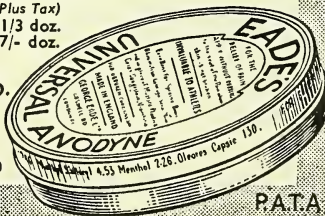
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Another Eade's product always in demand.

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PATA

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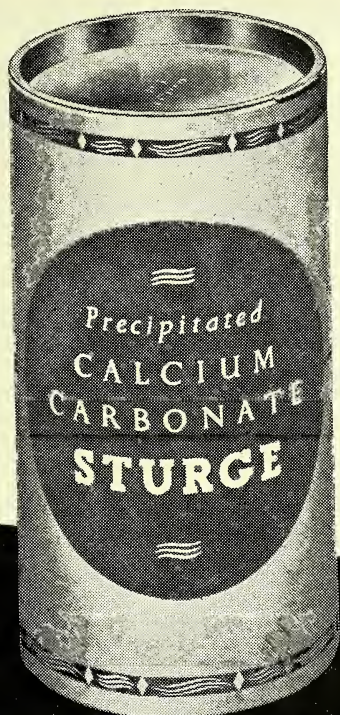
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## BESORBON

is a time-tested line,  
used extensively for

## COLDS · CATARRH · HAY FEVER

It retails at 1/3 (plus p.t.) Distribution to the Trade is solely through Chemists' Wholesalers. Send a trial order now. One dozen will come in a display outer.



MAY 8-19  
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FINE  
CHEMICAL  
FOR  
INDUSTRIAL  
USE

For the  
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manufacturer  
there is a  
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METAL COMBS**Will remove Nits, Vermin  
from hair and scalp

All Enquiries

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**WELL KNOWN FIRM OF  
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FACTURERS (Factory  
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PLANT WILL ACCEPT  
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LISHED FIRMS, AT VERY  
KEEN PRICES FOR 6 oz.,  
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ROLLS CAN BE BANDED  
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Particulars:—

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**LIQUIDS:** From Bulk into any size bottle  
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ESTABLISHED 1793

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Medicine of 150 years' standing

Does not contain any Scheduled Poison

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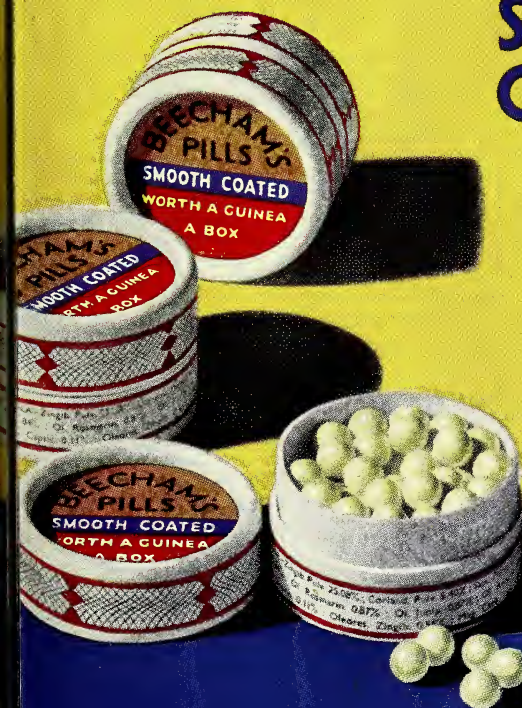
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## Beecham's Pills

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### SMOOTH COATED..

*for those  
who  
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**SEND FOR ATTRACTIVE  
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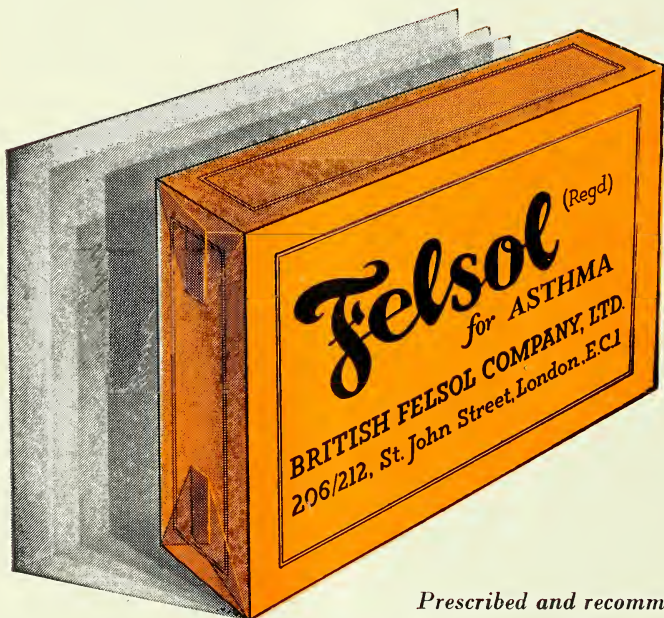
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